

High School Courses that Fullfill DCPS Graduation Requirements in Specific Categories 2009-2010

course code	course title	catalogue desc	credit value	College Level/ Career Prep	dcps 24	dcps 24 alt
M41	Algebra II & Trigonometry	The study of functions is the primary focus of Algebra II. Students study functions algebraically, as well as numerically and graphically, using technology and manipulatives. The student will become proficient in recognizing and solving everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step, and trigonometric functions. The course emphasizes the concepts of complex numbers, matrices, systems of equations and inequalities, sequences and series, probability using permutations and combinations, and trigonometry.	1.00	N	ALG	MTH
M42	Honors Algebra II	This course is an intensive, accelerated course intended to prepare students for advanced mathematics courses. Honors Algebra II with Trigonometry focuses on the use of technology and data analysis to develop students' thinking, problem-solving, and communication skills. Topics included for study are families of functions, systems of equations, matrix applications, combinatorics, sequences and series, complex numbers and trigonometry. Applications as well as the properties relevant to advanced mathematics are also studied.	1.00	N	ALG	MTH
MA1	Algebra I A - 0.5	The goals of this course are to help the student acquire an understanding of the real number system as a basic structure of algebra and to acquire facility in applying algebraic concepts to problem solving. Topics covered include operations with real numbers, solving equations and inequalities in one variable, lines and graphing, polynomials and algebraic fractions, factoring, solving systems of equations and the quadratic formula. The use of graphing calculators is an integral part of the course allowing for exploration of a variety of approaches to solving problems. Credit is awarded upon successful completion of and passing the end-of-course exam. This is a 0.5 credit course and is partnered with MA2. Approval needed by Director of Mathematics for a school to schedule	0.50	N	ALG	MTH
MA2	Algebra I B - 0.5	The goals of this course are to help the student acquire an understanding of the real number system as a basic structure of algebra and to acquire facility in applying algebraic concepts to problem solving. Topics covered include operations with real numbers, solving equations and inequalities in one variable, lines and graphing, polynomials and algebraic fractions, factoring, solving systems of equations and the quadratic formula. The use of graphing calculators is an integral part of the course allowing for exploration of a variety of approaches to solving problems. Credit is awarded upon successful completion of and passing the end-of-course exam. This is 0.5 credit course and is partnered with MA. Approval needed by Director of Mathematics for a school to schedule.	0.50	N	ALG	MTH
MA3	Algebra II & Trig A	The study of functions is the primary focus of Algebra II. Students study functions algebraically, as well as numerically and graphically, using technology and manipulatives. The student will become proficient in recognizing and solving everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step, and trigonometric functions. The course emphasizes the concepts of complex numbers, matrices, systems of equations and inequalities, sequences and series, probability using permutations and combinations, and trigonometry. This course is a 0.5 credit course and is partnered with MA4. Approval needed by Director of Mathematics for a school to schedule.	0.50	N	ALG	MTH
MA4	Algebra II & Trig B	The study of functions is the primary focus of Algebra II. Students study functions algebraically, as well as numerically and graphically, using technology and manipulatives. The student will become proficient in recognizing and solving everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step, and trigonometric functions. The course emphasizes the concepts of complex numbers, matrices, systems of equations and inequalities, sequences and series, probability using permutations and combinations, and trigonometry. This is a 0.5 credit course and is partnered with MA3. Approval needed by Director of Mathematics for a school to schedule.	0.50	N	ALG	MTH

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M21	ALGEBRA I	The goals of this course are to help the student acquire an understanding of the real number system as a basic structure of algebra and to acquire facility in applying algebraic concepts to problem solving. Topics covered include operations with real numbers, solving equations and inequalities in one variable, lines and graphing, polynomials and algebraic fractions, factoring, solving systems of equations and the quadratic formula. The use of graphing calculators is an integral part of the course allowing for exploration of a variety of approaches to solving problems. Credit is awarded upon successful completion of and passing the end-of-course exam.	1.00	N	ALG	
M22	Honors Algebra 1	This course is designed to challenge gifted math students. All of the topics in Algebra I are taught along with the following additional topics: rational functions; radical equations; and trigonometric ratios. The use of graphing calculators is an integral part of the course allowing for exploration of a variety of approaches to solving problems. Successful completion of this course would result in going to Honors Geometry (M32) or Geometry (M31) Credit is awarded upon successful completion and passing the end-of-course exam.	1.00		ALG	
M24	Algebra I B - 1.0	Students who enroll in this course either are continuing their elementary algebra studies (which they began in Algebra I Part A). First advisory topics include a review of linear functions, followed by a study of quadratic functions and equations; exponential functions and expressions; properties and trigonometry of right triangles; and radical expressions and their equations. Second advisory topics include multiplying and factoring polynomials; solving polynomial equations; and working with rational expressions and equations. Successful completion of this course would result in going to Geometry Part A (M33) Credit is awarded upon successful completion of and passing the end-of-course exam.	1.00	N	ALG	
M44	Algebra II Part B with Trigonometry	Students who enroll in this course either are continuing their studies in intermediate algebra (which they began in Algebra II with Trigonometry Part A). Topics include rational functions, complex numbers, conic sections, probability, data analysis and statistics, sequences and series, and trigonometry. Successful completion of this course would result in going to Pre-Calculus.	1.00	N	ALG	
A05	Art and Design Foundations	function of design, American and world art historical and cultural context, art criticism, and connections to other disciplines, technology, careers, and the artist's role in society. Designed to provide students with the tools needed to interpret and communicate about works of art, learn the skills and knowledge necessary to produce in each art form, the intended outcome is artistic literacy. This standards-based course provides students with a greater understanding of historical and cultural perspectives, enabling a celebration of cultural diversity and global views. Critical as citizens of Washington, D.C., students will have a broader perception of their environment through architecture and design education. To facilitate comprehension of art concepts, meaningful hands-on learning experiences allow for personal growth and creative expression. A variety of art forms and media are developed in drawing, painting, sculpture, digital technology, printmaking, and advertising design among others leading to a reflective portfolio. As students apply the principles of aesthetics and art criticism, they formulate a lifelong appreciation of the arts and	0.50	N	ART	
A09	Art I	Designed to provide students with the tools needed to interpret and create the language of visual images and artifacts. The focus is on increasing knowledge, understanding and application in using media to create products, the structure and function of design, multicultural art history, aesthetics and critical assessment, and making connections. A variety of processes will be studied including design, drawing, painting, computer art, advertising art, printmaking, and career awareness leading to the development of a portfolio.	1.00		ART	
A55	Seminar in The Visual Arts	Provides students the opportunity to study major art movements, styles and artists in Western and non-Western cultures. Art history, aesthetics, criticism, research, writing, and creative art projects are included in the course. Satisfactory completion of this course will fulfill the art graduation requirement.	0.50	N	ART	
A57	Survey of World Art	Introduces students to the art of various world cultures. This course will include the global aspects and influences in drawing, painting and crafts and incorporate criticism, aesthetics, and art history as well as creative projects. Satisfactory completion of this course will fulfill the art graduation requirement.	0.50	N	ART	

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A58	Art And Culture	For Duke Ellington School of the Arts only. Enables students to develop an appreciation of different cultures through their art; explore various media and techniques; gain understanding of the elements and principles of design; improve their powers of observation; establish familiarity with local museum collections and architecture, and appreciate art as a critical means to understand a culture.	0.50	N	ART	
A66	AP Studio Art	Prepares the studio art student for college credit while in high school. Although previous art training is not required, students must have talent and be seriously interested in pursuing the intensive and broad structure inherent in the course.	1.00	N	ART	
A67	AP Art History	Prepares the student of art history for college credit while in high school. It provides a foundation for enjoying, understanding, and judging a work of art. Various learning experiences will be used including slide literature, required reading from art history texts, museum visits, class discussion, and critiques.	1.00	N	ART	
A83	Computer Graphic Design		0.50		ART	
A88	AP Studio Art/Drawing	AP Studio Art/Drawing	1.00	N	ART	
A89	AP Studio Art/2-D Design	AP Studio Art/2-D Design	1.00		ART	
A90	AP Studio Art/3-D Design	AP Studio Art/3-D Design	1.00		ART	
A91	Introduction to 3-D Design		0.50	N	ART	
HC9	D.C. History and Government	Students will examine the major events in Washington, D.C.'s history, particularly in relationship to the student's past learning of American history. Emphasis should be placed on the creation of Washington, D.C. and the historical developments of the capital city of the United States. Topics will focus on early settlements and geography; the establishment of a new national capital and a new city; Slavery, War, and Emancipation; the Reconstruction Period; the Late 19th and Early 20th Centuries; 20th-Century Expansion and Urban Challenges; Civil Rights and Home-Rule Victories; Addressing Opportunities and Problems Under Home Rule; and the District Government.	0.50	N	DCH	
E03	English I	This course builds upon the literary knowledge and language skills covered in English 8. Students will read, discuss, and write about multicultural drama, poetry, and novels. Writing products will include structured paragraphs, short compositions, letters, narratives, and at least one short research project. Technology will be used to complete writing and speaking tasks. Social communication skills will be further developed during peer interactions to complete class assignments.	1.00	N	ENG	
E04	English II	This course builds upon the literary knowledge and language skills covered in English I. Students will read, discuss, and write about multicultural novels, short stories, dramas, poetry, essays, and biographies. Expository, narrative, persuasive, and descriptive compositions will be written during creative writing assignments and in response to the literature read and discussed in class. Technology will be used to complete writing and speaking tasks. Social communication skills will be further developed during peer interactions to complete class assignments.	1.00	N	ENG	
E05	English III	This course builds upon the literary knowledge and language skills covered in English II. Students will read, discuss, and write about multicultural classical and contemporary literature with an emphasis on American works. Expository, narrative, persuasive, and descriptive composition comprehension and development will be addressed in preparation for writing documented papers. Technology will be used to complete writing and speaking tasks. Social communication skills will be further developed during peer interactions to complete class assignments.	1.00	N	ENG	

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E06	English IV	This course builds upon the literary knowledge and language skills covered in English III. Students will read, discuss, and write about multicultural and world classical and contemporary works with an emphasis on British literature. Students will write well-developed persuasive and expository essays, book and media reviews, and a documented paper. Technology will be used to complete writing and speaking tasks. Social communication skills will be further developed during peer interactions to complete class assignments.	1.00	N	ENG	
E07	AP English Literature and Composition	This course prepares students for the Advanced Placement Literature and Composition Examination through extensive reading and analysis of advanced classical and modern literature. Students will have extensive writing experiences including reading journals, impromptu writing, essay exams, essays of literary analysis, argumentative and expository essays, and creative writing. This course will also include timed literary essays analyzing the tone, diction, style, structure and other literary devices of poems and short prose selections.	1.00		ENG	
E08	AP English Language and Composition	This course prepares students for the Advanced Placement Language and Composition Examination through comprehensive analysis of the structure and style of written and spoken English. Students will write critical essays, compositions, book reviews, and documented papers using a mature, varied syntax and appropriate diction. This course emphasizes unity and logical thinking, clarity, coherence, and a concise, direct writing style.	1.00	N	ENG	
E09	Honors English I	Honors English I serves as an Advanced Placement reader course that focuses on close reading of poetry, novels, plays, stories, and essays, both classical and modern. This course includes instruction in both rhetorical devices and concepts needed for writing close literary analysis. Students will be provided with a number of timed, structured, and impromptu writing experiences that include literary analysis, and argumentative, expository, and creative writing to enhance clarity, structure, and style of writing. This course is more intensive than English I with an emphasis on the study of literary topics. Geared toward the highly motivated student, this course includes a greater number of reading and writing projects highlighted by the necessity to construct more advanced essays.	1.00	N	ENG	
E15	English I A	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English 1 curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English 8. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E16	English I B	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English 1 curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English I A or the first semester of English I. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E17	English II A	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English II curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English I or English I A and II A. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E18	English II B	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English II curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English II A or the first semester of English II. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	

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E19	English III A	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English III curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English II or English II A and II B. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E20	English III B	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English III curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English III A or the first semester of English III. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E21	English IV A	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English IV curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English III or English III A and III B. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E22	English IV B	Designed for incarcerated youth wishing to earn Carnegie units for English Language Arts in DCPS, this course uses a standards-based English IV curriculum which integrates the study of writing, vocabulary, literature analysis, research, and test-taking skills. The course will build upon skills developed in English IV A or the first semester of English IV. Students will receive some direct instruction, and specific computer programs will facilitate student learning.	0.50	N	ENG	
E36	Honors Eng II	Honors English II builds upon the content covered in Honors English I and serves as an Advanced Placement feeder course which covers close reading of poetry, novels, plays, stories, and essays, both classical and modern. Particular emphasis is placed upon the investigation of symbolism, alternative writing styles, and the development of the modern novel. This course includes instruction in both rhetorical devices and concepts needed for writing close literary analysis. Students will be provided with a number of timed, structured, and impromptu writing experiences that include literary analysis, and argumentative, expository, and creative writing to enhance clarity, structure, and style of writing. Students in this course can expect a significantly greater number of reading and writing assignments.	1.00	N	ENG	
E37	Honors English III	Honors English III builds upon the content covered in Honors English II and serves as an Advanced Placement feeder course which covers close reading of poetry, novels, plays, stories, and essays, both classical and modern. Particular emphasis will be on developing writing style inclusive of more advanced literary techniques. This course includes instruction in both rhetorical devices and concepts need for writing close literary analysis. Students will be provided with a number of timed, structured, and impromptu writing experiences that include literary analysis, and argumentative, expository, and creative writing to enhance clarity, structure, and style of writing. Students in this course can expect supplemental reading assignments and extra vocabulary work.	1.00	N	ENG	
E40	Honors English IV	Honors English IV builds upon the content covered in Honors English III and is a course which focuses on close reading of poetry, novels, plays, stories, and essays, both classical and modern. Students will continue developing writing style inclusive of more advanced literary techniques as they did in Honors English III. This course includes instruction in both rhetorical devices and concepts need for writing close literary analysis. Students will be provided with a number of timed, structured, and impromptu writing experiences that include literary analysis, and argumentative, expository, and creative writing to enhance clarity, structure, and style of writing.	1.00		ENG	

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E50	Eng & Humanities- Step I	This course engages students in an intense study of classical mythology, two Homeric Epics-The Illiad and The Odyssey-and the Bible as literature in an effort to expose students to the literary and cultural heritage of the human experience. This course is enhanced by the study of geography, history, art, and music as they apply to human relationships. Furthermore, students are expected to demonstrate proficiency in essay writing, vocabulary development, effective sentence structure, and paragraph development. Excursions to museums, art galleries, and embassies, in addition to guest lectures, combine practical and theoretical experiences for humanities students to clarify concepts and values inherent in the literature.	1.00	N	ENG	
E51	Eng & Humanities- Step II	This course discusses the social, economical, political, and cultural forces which define the American literary and cultural heritage. Students will study American literature, history, music, and art simultaneously as they compare and contrast their experiences with those of their forebears. In additions, students will be expected to demonstrate proficiency in expository writing by the end of the year.	1.00	N	ENG	
E52	Eng & Humanities- Step III	This course includes intense exploration of the students' cultural and literary heritage by exposing them to major British and multicultural writers. Additionally, students will compose a series of essays each semester, while constructing at least four independent study research papers. At the conclusion of the course, students will submit an annotated paper.	1.00	N	ENG	
E53	Eng & Humanities- Step IV	This course engages students in a rigorous study of multi-ethnic themes in music, art, literature, drama, science, and philosophy. Students will be encouraged to keep notebooks and will be expected to prepare short papers of three to five pages, written in and out of class. At the end of the course, students will synthesize their knowledge and conceptions in a well-documented research paper.	1.00	N	ENG	
EC6	9th Grade Ramp-Up ELA Workshop	This English language arts workshop is designed to assist students who are two or more years behind in reading skills and strategies. This elective course is a supplement to an English language arts course which addresses the basics of reading and key literacy concepts necessary for college preparation.	1.00	N	ENG	
X01	World Literature Part I	To be added.	1.00		ENG	
X02	World Literature Part II	To be added.	1.00		ENG	
F07	ENGLISH AS A SECOND LANGUAGE I	Provides instruction for students who have completed, or are in the process of completing the Newcomer ESL classes or who have received English language instruction in their country of origin but have only beginning-level English language proficiency, Emphasis is placed on developing listening, speaking, reading and writing skills necessary to perform academically.	1.00	N	FLA	
F09	ENGLISH AS A SECOND LANGUAGE II	Provides instruction for students who have completed the Beginning ESL classes or who have studied sufficient English in their country of origin to participate in an intermediate class. Emphasis is placed on developing reading and writing skills necessary to perform academically.	1.00	N	FLA	
F12	ENGLISH AS A SECOND LANGUAGE III	Provides English language instruction for limited English proficient (LEP) students at an advanced level of proficiency. This class may also serve to support LEP students enrolled in an English I class.	1.00	N	FLA	
L01	Sign Language	Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, finger spelling, and grammatical non-manual signals. Focuses on communicative competence. Develops gestural skills as a foundation for ASL enhancement. Introduces cultural knowledge and increases understanding of the Deaf Community. Contact with the Deaf Community is encouraged to enhance linguistic and cultural knowledge. This course code is used for senior high schools only grades 9 through 12. Expected proficiency level: Novice Low to Mid.	1.00	N	FLA	

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L02	Sign Language II	Focuses on expanding and improving comprehension and production of ASL necessary for effective communication. Provides intensive practice in comprehension and production of finger spelled words and numbers with emphasis on clarity and accuracy. Focuses on lexicalized finger spelling and numeral incorporation as used by native users of American Sign Language. Contact with the Deaf Community is encouraged to enhance linguistic and cultural knowledge. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L03	Sign Language III	Further develops vocabulary, conversational competence, and grammatical knowledge with a total immersion approach. Introduces increasingly complex grammatical aspects including those unique to ASL. Discusses culture and literature. Contact with the Deaf Community is encouraged to enhance linguistic and cultural knowledge. Expected proficiency level: Intermediate Low to Mid.	1.00	N	FLA	
L04	Sign Language IV	Continues to develop advanced American Sign Language comprehension and production skills. Emphasizes advanced linguistic aspects of ASL. Presents ASL literary forms and focuses on expanding and improving comprehension and production of ASL necessary for effective communication. Encourages contact with the Deaf Community. Expected proficiency level: Intermediate Mid to High.	1.00	N	FLA	
L11	French I	This course emphasizes the development of students' communicative competence in French and their understanding of the culture(s) of the French speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of French beyond the classroom in order to apply knowledge of the language in the real world. The geography and history of Francophone countries are introduced. This code is used only in senior high school grades 9 through 12. The expected level of proficiency is novice low-mid. One Carnegie unit applies.	1.00	N	FLA	
L12	French II	This course reinforces skills developed in French I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in French. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary Francophone cultures. Expected proficiency level: Novice Mid to High. One Carnegie unit applies.	1.00	N	FLA	
L13	French III	Emphasizes functional use through activities that involve meaningful language use. Learned grammatical skills and the finer points of structure are reinforced to achieve greater oral and written proficiency. Readings are drawn, primarily, from contemporary sources (novels, short stories, newspapers, magazines) for increased knowledge of Francophone cultures. The study of classics may be introduced. All instruction is in the target language. Expected level of proficiency: Intermediate Low to Mid.	1.00		FLA	
L14	French IV	Emphasizes functional use through activities that involve meaningful language use. Develops critical judgment through frequent oral and written practice. Grammar is reviewed and emphasis is placed on the development of an enriched vocabulary. Reading and analysis of unabridged popular and literary texts are stressed. The classics, if read, are those recommended by the Advanced Placement Program. Continued emphasis is placed on contemporary culture. Course is conducted in French. Expected level of proficiency: Intermediate Mid to High.	1.00	N	FLA	

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L15	AP French Language	Advanced Placement French Language covers the equivalent of a third-year college course in advanced French composition and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than to the mastery of any specific subject matter. Extensive training in the organization and writing of compositions must be an integral part of the Advanced Placement French Language course. Students who enroll should already have a good command of French grammar and vocabulary and have competency in listening comprehension, speaking, reading and writing, and knowledge of the language and culture of French-speaking peoples. Course is conducted in French. Expected level of proficiency: Intermediate high to Advanced.	1.00	Y	FLA	
L1D	French I A	This course emphasizes the development of students' communicative competence in French and their understanding of the culture(s) of the French speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of French beyond the classroom in order to apply knowledge of the language in the real world. The geography and history of Francophone countries are introduced. This code is used only in senior high school grades 9 through 12. The expected level of proficiency is novice low-mid. This is a 0.5 credit course and is partnered with L1E. Approval is needed by the Director of World Languages for a school to schedule this course.	0.50	N	FLA	
L1E	French I B	This course emphasizes the development of students' communicative competence in French and their understanding of the culture(s) of the French speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of French beyond the classroom in order to apply knowledge of the language in the real world. The geography and history of Francophone countries are introduced. This code is used only in senior high school grades 9 through 12. The expected level of proficiency is novice low- mid. This is a 0.5 credit course and is partnered with L1D. Approval is needed by the Director of World Languages for a school to schedule this course.	0.50	N	FLA	
L1F	French II A	This course reinforces skills developed in French I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in French. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary Francophone cultures. Expected proficiency level: Novice Mid to High. This is a 0.5 credit course and is partnered with L1G. Approval is needed by the Director of World Languages for a school to schedule.	0.50	N	FLA	
L1G	French II B	This course reinforces skills developed in French I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in French. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary Francophone cultures. Expected proficiency level: Novice Mid to High. This is a 0.5 credit course and is partnered with L1F. Approval is needed by the Director of World Languages for a school to schedule.	0.50	N	FLA	

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L21	German I	Emphasizes functional use through activities that involve meaningful language use. Reinforces the mastery of German sounds and intonation through speaking and conversational practice. The basic grammatical structures are studied and an active and passive vocabulary developed. Elementary selections are read for comprehension and writing skills are developed. Cultural, scientific, and historical contributions are studied; along with geographical regions and political structures of the German-speaking countries. This course code is used for senior high schools only grades 9 through 12. Expected proficiency level: Novice Low to Mid. Carnegie unit applies.	1.00	N	FLA	
L22	German II	Emphasizes functional use through activities that involve meaningful language use. Reinforces skills developed in German I with emphasis on structure, vocabulary expansion, reading comprehension, and writing. More complex grammatical structures are studied. More is learned about the history and contributions of the German-speaking peoples. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L23	German III	Emphasizes functional use through activities that involve meaningful language use. Reinforces learned grammatical skills. Study of nuances of structure to improve oral and written proficiency. Readings are drawn primarily from contemporary sources to increase knowledge of Germanophone cultures. Course is conducted in German. Expected level of proficiency: Intermediate Low to Mid.	1.00	N	FLA	
L31	Italian I	Emphasizes functional use through activities that involve meaningful language use. Introduces the system of the language and its basic grammatical structure. Through intensive oral and aural practice, students learn to express themselves adequately in social and cultural situations and to describe common personal experiences. History and culture of Italy are discussed. Covers the second half of level one coursework when taught in the 8th or all of level one coursework in 9th grade in high school. This course code is used for senior high schools only grades 9 through 12. Expected proficiency level: Novice Low to Mid. Carnegie unit applies.	1.00	N	FLA	
L32	Italian II	Emphasizes functional use through activities that involve meaningful language use. Focuses on more advance grammatical patterns of the language, reading, composition, and conversation. This course utilizes selected readings, composition, and active individual discussion of material to develop language proficiency. A more detailed survey of Italian culture is included. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L33	Italian III	Emphasizes functional use through activities that involve meaningful language use. Learned grammatical skills and the finer points of structure are reinforced to achieve greater oral and written proficiency. Readings are drawn, primarily, from contemporary sources (novels, short stories, newspapers, magazines etc...) for increased knowledge of Italian culture. The study of classics may be introduced. All instruction is in the target language. Expected level of proficiency: Intermediate Low to Mid.	1.00	N	FLA	
L34	Italian IV	Emphasizes functional use through activities that involve meaningful language use. Develops critical judgment through frequent oral and written practice. Grammar is reviewed and emphasis is placed on the development of an enriched vocabulary. Reading and analysis of unabridged popular and literary texts are stressed. The classics, if read, are those recommended by the Advanced Placement Program. Continued emphasis is placed on contemporary culture. Course is conducted in Italian. Expected level of proficiency: Intermediate Mid to High.	1.00	N	FLA	
L36	AP ITALIAN LANGUAGE	Emphasizes functional use through activities that involve meaningful language use. Students complete the work on the current College Entrance Examination Board Advanced Placement List. Emphasis is on the development of literary appreciation and analysis, and major literary currents and representative works are reviewed. Continued emphasis is placed on the study of contemporary Italian culture. Course is conducted in Italian. Expected level of proficiency: Intermediate to Advanced.	1.00	Y	FLA	

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L41	Latin I	Focuses on the ability to pronounce and read Latin. The basic elements of the language stressed are vocabulary, forms, and syntax. Emphasis is also on those elements of English vocabulary which are derived from Latin. Facts relating to the life, history, institutions, mythology, and religion of the Romans and their influence on the course of Western civilization are presented. Covers the second half of Level One course when taken in the 8th grade and covers all of level one course work in 9th grade in high school. This course code is used for senior high schools only grades 9 through 12. Carnegie unit applies.	1.00	N	FLA	
L42	Latin II	Reinforces objectives of Latin I. Student ability to read and translate Latin at a more advanced level is developed. More difficult grammatical principles are learned. Reading continues to include important events and persons in Roman history, interesting myths and legends, and portions of writings on the history of Caesar's Gallic Wars. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L43	Latin III	Increases the knowledge of Latin vocabulary, forms, and syntax. More complex grammatical structures and the Ciceronian vocabulary, idioms, and figures of speech are stressed. The orations of Cicero, prose selections by other authors, and some poetry of Ovid are the chief literary works studied. There is a continued building of a panoramic view of Roman life, culture, history, and institutions in the Golden Age of Roman literature. Expected proficiency level: Intermediate Low to Mid.	1.00	N	FLA	
L44	Latin IV	Concentrates on a variety of prose and poetry authors, including Vergil, Cicero, Pliny, Catullus, Ovid, and Horace. Continued stress is placed on figures of speech, idioms, and accuracy in translation, and on Graeco-Roman history and culture. Expected proficiency level: Intermediate Mid to High.	1.00	N	FLA	
L56	AP SPAN Lit	This course is an introduction to Literature in Spanish, covering selected works from the literatures of Spain and Spanish America from the Medieval and Golden Ages to the 20th Century. Because students read and analyze literature orally and in writing, the language proficiency reached by the end of the Advanced Placement course is generally equivalent to that of college students who have completed a fifth or sixth semester of Spanish in composition, conversation, and grammar as well. Course is conducted in Spanish. Expected proficiency level is intermediate-high to advanced.	1.00	Y	FLA	
L57	Spanish For Native Speakers I	This course offers fluent speakers of Spanish the opportunity to strengthen their basic skills in reading and writing Spanish. The students learn about the Hispanic contributions to the English language and American culture. The students also study the major historical figures and events of Spanish-speaking countries. The course is conducted in Spanish and counts toward fulfilling the world language requirement. Placement test required.	1.00	N	FLA	
L58	Spanish For Native Speakers II	This course, designed for fluent speakers of Spanish, continues to emphasize the improvement of students' skills in speaking, reading, and writing in Spanish. Students read and critique contemporary short stories and make oral presentations. The writing and reading processes are emphasized to ensure growth in both skills. The students will also study various Hispanic personalities and historic events of Spanish-speaking countries. The course is conducted in Spanish.	1.00	N	FLA	
L61	Spanish I	This course emphasizes the development of students' communicative competence in Spanish and their understanding of the culture(s) of the Spanish speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of Spanish beyond the classroom in order to apply knowledge of the language in the real world. The geography, history and culture (s) of Spanish speaking countries are introduced. This course code is used for senior high schools only grades 9 through 12. The expected level of proficiency is novice low-mid.	1.00	N	FLA	

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L62	Spanish II	This course reinforces skills developed in Spanish I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in Spanish. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary cultures of the Spanish speaking world. Expected proficiency level: Novice Mid to High. One Carnegie unit applies.	1.00	N	FLA	
L63	Spanish III	Emphasizes functional use through activities that involve meaningful language use. Reinforcement of learned grammatical skills and the learning of the finer points of structure to achieve oral and written proficiency. Readings are drawn primarily from contemporary sources (novels, short stories, newspapers, magazines). The study of classics may be introduced. All instruction is in Spanish. Expected level of proficiency: Intermediate Low to Mid.	1.00	N	FLA	
L64	SPANISH IV	Emphasizes functional use through activities that involve meaningful language use. Stresses the development of critical judgment through frequent oral and written practice. Grammar is reviewed and emphasis is placed on the development of an enriched vocabulary. Attention is given to the nuances of the Spanish language. Reading and analysis of unabridged popular and literary texts is stressed. The classics, if read, are those recommended by the Advanced Placement Program. Continued emphasis is placed on contemporary Spanish and Latin-American culture. Course is conducted in Spanish. Expected level of proficiency : Intermediate Mid to High.	1.00	N	FLA	
L65	AP SPANISH LANGUAGE	This course serves the equivalent of a college course in advanced Spanish competence and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than to the mastery of any specific subject matter. Extensive training in the organization and writing of compositions must be an integral part of the Advanced Placement Spanish Language course. Students who enroll should already have a good command of Spanish grammar and vocabulary and have competency in listening comprehension, speaking, reading and writing, and knowledge of the language and culture of Spanish-speaking peoples. Course is conducted in Spanish. The expected level of proficiency is intermediate high to advanced.	1.00	Y	FLA	
L6D	Spanish I A	This course emphasizes the development of students' communicative competence in Spanish and their understanding of the culture(s) of the Spanish speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of Spanish beyond the classroom in order to apply knowledge of the language in the real world. The geography, history and culture (s) of Spanish speaking countries are introduced. This course code is used for senior high schools only grades 9 through 12. The expected level of proficiency is novice low-mid. This is a 0.5 credit course and is partnered with L6E. Approval is needed by the Director of World Language for a school to schedule.	0.50	N	FLA	

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L6E	Spanish I B	This course emphasizes the development of students' communicative competence in Spanish and their understanding of the culture(s) of the Spanish speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process, reading and listening as a receptive process and speaking and writing in a presentational context. Basic grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. An important component of language class is the use of Spanish beyond the classroom in order to apply knowledge of the language in the real world. The geography, history and culture (s) of Spanish speaking countries are introduced. This course code is used for senior high schools only grades 9 through 12. The expected level of proficiency is novice low-mid. This is a 0.5 credit course and is partnered with L6D. Approval is needed by the Director of World Language for a school to schedule.	0.50	N	FLA	
L6F	Spanish II A	This course reinforces skills developed in Spanish I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in Spanish. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary cultures of the Spanish speaking world. Expected proficiency level: Novice Mid to High. This is a 0.5 credit course and is partnered with L6G. Approval is needed by the Director of World Language for a school to schedule.	0.50	N	FLA	
L6G	Spanish II B	This course reinforces skills developed in Spanish I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in Spanish. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary cultures of the Spanish speaking world. Expected proficiency level: Novice Mid to High. This is a 0.5 credit course and is partnered with L6E. Approval is needed by the Director of World Language for a school to schedule.		N	FLA	
L70	INTERPRETATION/SPANISH-ENGLISH	Pre-requisites: L64, L65 or L56 This course teaches the building blocks of interpreting, including analyzing, summarizing and paraphrasing, listening comprehension, shadowing, closure, and note taking. It provides students with repeated opportunities for practical experience in the interpreting modes necessary for working in different settings. A diagnostic test is required for this course.	1.00	N	FLA	
L71	TRANSLATION/SPANISH-ENGLISH	Pre-requisites: L64, L65 or L56 This is a course designed to introduce students to the basic principles of translation from Spanish to English and from English to Spanish. Practice will be given in comprehension and precise writing. Students, in addition to studying Spanish, will learn basic translation techniques and the process of translation. This includes a practical review of the English writing, editing, and proofreading skills necessary to produce clear and polished translations. Students will acquire a professional understanding of the translation process through the study of theory and methods of translation. A diagnostic test is required for this course.	1.00	N	FLA	

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L73	Mandarin Chinese I	This course emphasizes functional use through activities that involve meaningful language use. It stresses accuracy in pronunciation and tone usage. This course introduces the reading and writing of basic characters in context. The study of the geographic regions, the history, and the cultures of China begins. This code is used for senior high schools only grades 9 through 12. Expected level of proficiency: Novice-Low to Mid. One Carnegie unit applies.	1.00	N	FLA	
L74	Mandarin Chinese II	This course emphasizes functional use through activities that involve meaningful language use. All skills acquired in Level One are reinforced. Continued emphasis is placed on the Chinese system of writing. Students continue to study of the history and culture of contemporary China. Expected level of proficiency: Novice-Low through High.	1.00	N	FLA	
L76	Hebrew I	This course is an introduction to modern Hebrew designed only for students with no previous knowledge of Hebrew. Classes are communicative, with a focus on conversational skills. Students will learn the Hebrew alphabet and acquire basic vocabulary and an elementary grasp of Hebrew grammar. New vocabulary and grammatical structures are practiced through speaking, listening, reading and writing. Students will use computers for additional practice and review of vocabulary and grammar taught in class. Expected proficiency level: Novice Low to Mid.	1.00	N	FLA	
L77	Hebrew II	This course is intended to improve the student's ability to read, write, speak and comprehend Modern Hebrew. Although the course presupposes the equivalent of one year of elementary Hebrew, a systematic review of grammar is included. Emphasis is on vocabulary building and comprehension of Modern Hebrew texts through reading of short stories and discussions. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L81	Russian I	Emphasizes functional use through activities that involve meaningful language use. The scripts of the written and printed alphabet are studied with emphasis on the mastery of the declensional endings of the highly inflected language. Simple Russian selections are read for comprehension. Cultural contributions of the Russian peoples and geographical and historical information are presented. Expected level of proficiency: Novice-Mid/High.	1.00	N	FLA	
L82	Russian II	Emphasizes functional use through activities that involve meaningful language use. Reinforces skills acquired in Russian I. Emphasis is placed on the acquisition of a good active and passive vocabulary. Knowledge of the culture and history of the Russian people is increased. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
L85	Japanese I	This course emphasizes functional use through activities that involve meaningful language use. It stresses the ability to communicate as evidenced in listening, speaking, reading and writing with emphasis on the oral and in writing. It introduces the reading and writing of basic characters in context. The study of the geographic regions, the history, and the cultures of Japan begins. This code is used for senior high schools grades 9 through 12 only. Expected level of proficiency: Novice-Low to Mid. One Carnegie unit applies.	1.00	N	FLA	
L86	Japanese II	This course emphasizes functional use through activities that involve meaningful language use. Students continue to develop proficiency in all four skills- listening, speaking, reading, and writing with the emphasis on the ability to communicate orally and in writing. All skills acquired in Level One are reinforced. Continued emphasis is placed on the Japanese system of writing. Students continue to study of the history and culture of contemporary Japan. Expected level of proficiency: Novice-Low through High.	1.00	N	FLA	
L91	Modern Standard Arabic I	Emphasizes functional use through activities that involve meaningful language use. Emphasis is placed on oral production, comprehension, elementary grammar, and the writing system. Cultural history and contributions of Arabic-speaking peoples and geography of predominantly Arabic countries are presented. Expected level of proficiency: Novice-Mid/High.	1.00	N	FLA	

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L92	Modern Standard Arabic II	Emphasizes functional use through activities that involve meaningful language use. Reinforces skills developed in Arabic I, with emphasis on more intensive oral and listening practice of Arabic sounds and intonation. More complicated grammatical constructions are studied and vocabulary is expanded through oral discussion of topical subjects. A general introduction to literature is provided with reading of simple stories and other texts in Arabic. Writing is expanded to include the new structures and expanded vocabulary with continued emphasis on Arabic script. Cultural history of contemporary Arabic-speaking world is studied. Expected proficiency level: Novice Mid to High.	1.00	N	FLA	
LIF	French II A	This course reinforces skills developed in French I. Students continue to develop their proficiency in the three modes of communicative competence: interacting with others, understanding oral and written messages and making oral and written presentations in French. They show a greater level of accuracy when using basic language structures and are exposed to more complex features of the language. Students read authentic materials on familiar topics and write short, directed compositions. More is learned about the history and customs of contemporary Francophone cultures. Expected proficiency level: Novice Mid to High. This is a 0.5 credit course and is partnered with L1G. Approval is needed by the Director of World Languages for a school to schedule.		N	FLA	
X05	Spanish Language B Standard Level Part I	This course is designed for students with 2-5 years of prior study of Spanish. It offers students the continued process of learning to speak Spanish at an advanced level and with a deeper understanding of the cultures of the Spanish speaking world. Emphasis is on interactive communications in Spanish and high level of Spanish proficiency in linguistic skills. This course represents a minimum of 150 hours. Expected proficiency level Intermediate High-Advanced.	1.00	N	FLA	
X06	Spanish Language B Standard Level, Part II	This course is to maximize linguistic skills in Spanish. It offers students an enriched study of language, literature, and culture with relevance to international societies. Students review all language concepts and study representative writers in the original language independently and in groups. Students are immersed in culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development-all working to produce a lifelong learner. Expected proficiency level: intermediate high-advanced.	1.00	N	FLA	
X07	Spanish High Level Part I	This course is designed for students who intend to pursue a more advanced study of the language and cultures of the Spanish speaking world. Strong emphasis will be placed on proficiency in listening, speaking, reading and writing in combination with grammatical accuracy. Students will learn the skills necessary to communicate in a variety of real-world contexts. They will explore contemporary social, political and economic issues in both everyday life and cultures of the Spanish speaking world. HL courses represent a recommended minimum 240 teaching hours. The expected proficiency level: intermediate high to advanced.	1.00	N	FLA	
X08	Spanish High Level Part II	This course continues to maximize skills and content previously acquired. Instruction will be more individualized to address a more rigorous application of content. Students will be expected to express themselves exclusively in Spanish and rise to the expectations of a demanding curriculum. The expected proficiency level: intermediate high- advanced.	1.00	Y	FLA	
X09	German Standard Level Part I	This course is designed for students with 2-5 years of prior study of German. It offers students the continued process of learning to speak German at an advanced level and with a deeper understanding of the cultures of the Spanish speaking world. Emphasis is on interactive communications in German and high level of German proficiency in linguistic skills. This course represents a minimum of 150 teaching hours. The expected proficiency level: intermediate high-advanced.	1.00	N	FLA	

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X10	German Standard Level Part II	This course is to maximize linguistic skills in German. It offers students an enriched study of language, literature, and culture with relevance to international societies. Students review all language concepts and study representative writers in the original language independently and in groups. Students are immersed in culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school; information and communication via technology; involvement in activities for personal enrichment and career development-all working to produce a lifelong learner. The expected proficiency level: Intermediate high-Advanced.	1.00	N	FLA	
X11	German High Level Part I	This course is designed for students who intend to pursue a more advanced study of the language and cultures of the German speaking world. Strong emphasis will be placed on proficiency in listening, speaking, reading and writing in combination with grammatical accuracy. Students will learn the skills necessary to communicate in a variety of real-world contexts. They will explore contemporary social, political and economic issues in both everyday life and cultures of the German-speaking world. HL courses represent a recommended minimum 240 teaching hours. The expected proficiency level: Intermediate high to Advanced.	1.00	N	FLA	
X12	German High Level Part II	This course continues to maximize skills and content previously acquired. Instruction will be more individualized to address a more rigorous application of content. Students will be expected to express themselves exclusively in German and rise to the expectations of a demanding curriculum. The expected proficiency level: intermediate high- advanced.	1.00	N	FLA	
X13	French High Level Part I	This course is designed for students who intend to pursue a more advanced study of the language and cultures of the French speaking world. Strong emphasis will be placed on proficiency in listening, speaking, reading and writing in combination with grammatical accuracy. Students will learn the skills necessary to communicate in a variety of real-world contexts. They will explore contemporary social, political and economic issues in both everyday life and cultures of the French speaking world. HL courses represent a recommended minimum 240 teaching hours. The expected proficiency level: Intermediate high to Advanced.	1.00	N	FLA	
X14	French High Level Part II	This course continues to maximize skills and content previously acquired. Instruction will be more individualized to address a more rigorous application of content. Students will be expected to express themselves exclusively in French and rise to the expectations of a demanding curriculum. The expected proficiency level: Intermediate to high-advanced.	1.00	N	FLA	
X16	Latin Language B Standard Level B Part I	This course is designed to expose students to concepts and knowledge base to develop a deeper understanding of western Civilization's past, present and, for the creative thinker, of its future. The Latin Standards Level course builds upon basic grammatical, etymological, logical, and text linguistic structures while enhancing student's ability to read and understand the cultural ideals of antiquity through the study of various genres of Roman literature. Assessment is evaluated according to the IB Latin SL criteria. The four skill areas are integrative parts of the rubrics created to evaluate self and others according to IB standards of excellence.	1.00	N	FLA	
X17	Latin Language B Standard Level B, Part II	This course builds on the four skill areas (grammatical, etymological, logical and text linguistic structures) previously acquired. Furthermore, students will be introduced to high level concepts in English and then build Latin comprehension towards this level: Comprehension comes first, then application.	1.00	N	FLA	
X18	Latin High Level Part I	This course surveys various Latin literatures from the 1st century B.C. The focus is on materialness as a language (mastery of fundamentals is assumed), and more as literature. Special attention will be paid to the various meters employed as well as the use of various stylistic and rhetorical approaches. Culturally, students study the late Republic and early Empire as they pertain to understanding the various literary works. This course is the first part of a two year course following the IB Higher Level curriculum. In the first year, the focus is on the works of the prescribed author Livy (Ab Urbe Condita), prescribed topic of Roman epic in the works of Vergil (Aeneid) and Propertius (Elegies book 1 and 2) and Vergil (Aeneid) in English.	1.00	N	FLA	

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X19	French Language B Standard Level Part I	This course is designed for students with 2-5 years of prior study of French. It offers students the continued process of learning to speak French at an advanced level and with a deeper understanding of the cultures of the French speaking world. Emphasis is on interactive communications in French and high level of French proficiency in linguistic skills. This course represents a minimum of 150 hours. The expected proficiency level: Intermediate high-advanced.	1.00	N	FLA	
X1A	Ib Ab Initio German Part I	This course is designed for students with no previous experience in learning German. It enables students within two years of the program to communicate in familiar and practical situations while also providing insight into the culture of the German speaking world. The emphasis is on interaction and communication; the language is viewed as an entity. Expected proficiency level: Novice-Intermediate	1.00	N	FLA	
X1B	Ib Ab Initio German Part II	This course covers the first and second year of the IB program. Students develop fluency in writing, speaking and understanding. Furthermore students having followed the Language B program should be able to demonstrate an awareness and appreciation of the different cultural perspectives of the German Speaking countries. Expected proficiency level: novice mid-intermediate.	1.00	N	FLA	
X1C	IB Ab Initio French Part I	This course is part one of two. It is designed for students with no previous experience in learning French. It enables students within two years of the program to communicate in familiar and practical situations while also providing insight into the culture of the French speaking world. The emphasis is on interaction and communication; the language is viewed as an entity.	1.00	N	FLA	
X1D	IB Ab Initio French Part II		1.00	N	FLA	
X20	French Language B Standard Level Part II	This course to maximize linguistic skills in French. It offers students an enriched study of language, literature, and culture with relevance to international societies. Students review all language concepts and study representative writers in the original language independently and in groups. Students are immersed in culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development-all working to produce a lifelong learner. The expected proficiency level: intermediate high-advanced.	1.00	N	FLA	
X21	Latin High Level Part II	This course surveys various Latin literatures from the 1st century B.C. The focus is on material less as a language (mastery of fundamentals is assumed), and more as literature. Special attention will be paid to the various meters employed as well as the use of various stylistic and rhetorical approaches. Culturally, students study the late Republic and early Empire as they pertain to understanding the various literary works. This course is the second part of a two year course following the IB Higher Level curriculum. In the second year, the focus is on the works of the prescribed author Livy (Ab Urbe Condita), prescribed topics of Love Poetry in the works of Catullus (Carmina), Horace (Odes), and Ovid (Amores and Metamorphses).	1.00	N	FLA	
YA1	VIETNAMESE 1		1.00	N	FLA	
YA2	VIETNAMESE 2		1.00	N	FLA	
YA3	VIETNAMESE 3		1.00	N	FLA	
YA4	Amharic 1		1.00	N	FLA	
YA5	Amharic 2		1.00	N	FLA	
YA6	Amharic 3		1.00	N	FLA	
YA7	THAI 1		1.00	N	FLA	
YA8	Thai 2		1.00	N	FLA	
YA9	Thai 3		1.00	N	FLA	
YB1	Nepali 1		1.00	N	FLA	
YB2	Nepali 2		1.00	N	FLA	

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YB3	Nepali 3		1.00	N	FLA	
YB4	Slovak 1		1.00	N	FLA	
YB5	Slovak 2		1.00	N	FLA	
YB6	Slovak 3		1.00	N	FLA	
YB7	Romanian 1		1.00	N	FLA	
YB8	Romanian 2		1.00	N	FLA	
YB9	Romanian 3		1.00	N	FLA	
YC1	Igbo 1		1.00	N	FLA	
YC2	Igbo 2		1.00	N	FLA	
YC3	Igbo 3		1.00	N	FLA	
YC4	Filipino 1		1.00	N	FLA	
YC5	Filipino 2		1.00	N	FLA	
YC6	Filipino 3		1.00	N	FLA	
YC7	Zulu 1		1.00	N	FLA	
YC8	Zulu 2		1.00	N	FLA	
YC9	Zulu 3		1.00	N	FLA	
YD1	Khmer 1		1.00	N	FLA	
YD2	Khmer 2		1.00	N	FLA	
YD3	Khmer 3		1.00	N	FLA	
YD4	Sanskrit 1		1.00	N	FLA	
YD5	Sanskrit 2		1.00	N	FLA	
YD6	Sanskrit 3		1.00	N	FLA	
YD7	Hindi 1		1.00	N	FLA	
YD8	Hindi 2		1.00	N	FLA	
YD9	Hindi 3		1.00	N	FLA	
YF1	Danish 1		1.00	N	FLA	
YF2	Danish 2		1.00	N	FLA	
YF3	Danish 3		1.00	N	FLA	
YF4	Portuguese 1		1.00	N	FLA	
YF5	Portuguese 2		1.00	N	FLA	
YF6	Portuguese 3		1.00		FLA	
M31	Geometry	Students in Geometry study Euclid's postulates and theorems as the basis for an axiomatic system. Students explore geometry through inductive and deductive processes using proofs and making algebraic connections where appropriate. Topics of investigation include logic, angle and line relationships, triangles and other polygons, congruence, similarity, and coordinate geometry. Trigonometric ratios are used to solve triangle problems. Students use area, volume, geometric probability, and geometric relationships to solve real-life problems. Students use technology, constructions, and manipulatives to support their processes. Credit is awarded upon successful completion and passing the end-of-course exam.	1.00	N	GMT	

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M32	Honors Geometry	In this course, students learn complex geometric concepts from algebraic and inductive reasoning perspectives. Students engage in challenging activities which require them to identify, analyze, and solve problems involving the following topics: segments, angles, triangles, quadrilaterals, polyhedra, circles, spheres, transformations, if-then statements, and proofs. (There is a heavy emphasis on proofs in the honors course.) Course work includes studying how geometry relates to algebra. The course emphasizes the need for students to comprehend the abstract and symbolic nature of geometry and application, analysis, and synthesis levels of understanding. Successful completion of this course would result in going to Honors Algebra II (M42) or Algebra II (M41). Credit is awarded upon successful completion and passing the end-of-course exam.	1.00	N	GMT	
M34	Geometry Part B	Students who enroll in this course either are continuing their elementary algebra studies (which they began in Geometry Part A). First advisory topics include right triangles and trigonometry, quadrilateral. Second advisory topics include transformations, circles and area and volume. Successful completion of this course would result in going to Algebra II (M41). Credit is awarded upon successful completion and passing the end-of-course exam.	1.00	N	GMT	
MG1	Geometry A	Students in Geometry study Euclid's postulates and theorems as the basis for an axiomatic system. Students explore geometry through inductive and deductive processes using proofs and making algebraic connections where appropriate. Topics of investigation include logic, angle and line relationships, triangles and other polygons, congruence, similarity, and coordinate geometry. Trigonometric ratios are used to solve triangle problems. Students use area, volume, geometric probability, and geometric relationships to solve real-life problems. Students use technology, constructions, and manipulatives to support their processes. Credit is awarded upon successful completion and passing the end-of-course exam. This is a 0.5 credit course and is partnered with MG2. Approval needed by Director of Mathematics for a school to schedule.	0.50	N	GMT	
MG2	Geometry B	Students in Geometry study Euclid's postulates and theorems as the basis for an axiomatic system. Students explore geometry through inductive and deductive processes using proofs and making algebraic connections where appropriate. Topics of investigation include logic, angle and line relationships, triangles and other polygons, congruence, similarity, and coordinate geometry. Trigonometric ratios are used to solve triangle problems. Students use area, volume, geometric probability, and geometric relationships to solve real-life problems. Students use technology, constructions, and manipulatives to support their processes. Credit is awarded upon successful completion and passing the end-of-course exam. This is a 0.5 credit course and is partnered with MG1. Approval is needed by Director of Mathematics for a school to schedule.	0.50	N	GMT	
HC5	WORLD HISTORY AND GEOGRAPHY 1: MID AGES/REVOLUTIO	The 9th grade year is a study of world history and geography during the medieval and early modern eras. Students study the development and changes of complex civilizations. They identify and explore the similarities and patterns of these civilizations. Emphasis is placed on the fact that many of the civilizations developed concurrently and impacted each other. All units include an examination of the impact of religion, economics, politics, and social history on the medieval and early modern eras. The Five Themes of Geography (location, movement, region, place, and human-environmental interaction) are woven into all the units, with emphasis on how geography affected the development of these civilizations. Students will learn about related careers in history/social science.	1.00	N	HIS	
HC6	WORLD HISTORY/GEOGRAPHY 2: INDUST. TO THE PRESENT	The 10th grade year is a study of world history and geography during the modern eras. Students study the development and changes of complex civilizations. This history/social science course examines the major turning points of the modern world from approximately 1750 to the present. Components of this class include: Historical Linkage, the French Revolution, the Industrial Revolution, the Rise of Imperialism and Colonialism, World War I, Totalitarianism, World War II and Nationalism. Students should develop an understanding of the historic as well as the contemporary geographic, social, political and economic consequences of the various areas and problems they review.	1.00	N	HIS	

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HP4	AP World History	The AP World History course develops a greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodication, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study.	1.00	Y	HIS	
HX1	Wld Hist & Geog I - Part A		0.50	N	HIS	
HX2	WORLD HISTORY AND GEOGRAPHY I - PART B	The 9th grade year is a study of world history and geography during the medieval and early modern eras. Students study the development and changes of complex civilizations. They identify and explore the similarities and patterns of these civilizations. Emphasis is placed on the fact that many of the civilizations developed concurrently and impacted each other. All units include an examination of the impact of religion, economics, politics, and social history on the medieval and early modern eras. The Five Themes of Geography (location, movement, region, place, and human-environmental interaction) are woven into all the units, with emphasis on how geography affected the development of these civilizations. Students will learn about related careers in history/social science.	0.50	N	HIS	
HX3	WORLD HISTORY AND GEOGRAPHY II - PART A	The 10th grade year is a study of world history and geography during the modern eras. Students study the development and changes of complex civilizations. This history/social science course examines the major turning points of the modern world from approximately 1750 to the present. Components of this class include: Historical Linkage, the French Revolution, the Industrial Revolution, the Rise of Imperialism and Colonialism, World War I, Totalitarianism, World War II and Nationalism. Students should develop an understanding of the historic as well as the contemporary geographic, social, political and economic consequences of the various areas and problems they review.	0.50	N	HIS	
HX4	WORLD HISTORY AND GEOGRAPHY II - PART B		0.50	N	HIS	
HX5	U.S. HISTORY/GEOGRAPHY: INDUSTRIAL TO PRES PART A		0.50	N	HIS	
HX6	U.S. HISTORY/GEOGRAPHY: INDUSTRIAL TO PRES PART A		0.50	N	HIS	
P15	HEALTH & PHYS ED	This course provides a multi-phased program of selected physical education instruction which will facilitate skill proficiency performance at the intermediate level or above in the area of fitness development and assessment, aerobics, gymnastics, dance, aquatics (survival elementary skills), and selected team and individual sports/game experiences that are associated with a lifetime interest in fitness.	0.50	N	HPE	

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P17	Adaptive Health and Physical Education	A required course for identified Adaptive Health and Physical Education students who have physiological, developmental and/or other special disabling needs. DCPS documentation or assessment is required. Presents a specific program of health concepts and safety practices to improve or maintain body functions and appearance. Content includes coping with life situations, human sexuality (socio-psychological and physiological aspects), simulated substances, environmental and consumer concerns, personal health appraisal and cardiopulmonary resuscitation certification. A physical education program in individual/dual sports, rhythmic, and/or recreational lifetime activities is prescribed to meet the individual needs of identified students. Individual instruction/programming will be directed to maximize the students' potential and skills.	0.50	N	HPE	
P26	HEALTH EDUCATION	This course provides learning experiences related to health concepts and safety practices in the maintenance and improvement of body efficiency, including: health skills in coping with life situations, sexual behaviors that result in HIV / AIDS / other STDs and consumer concerns, environmental health, family life, mental and emotional health injury prevention and safety, nutrition, personal health, prevention and control of disease, alcohol, drugs and tobacco, and an introduction to cardiopulmonary resuscitation (CPR) skills.	0.50	N	HPE	
P27	PHYS EDUCATION	The physical education component provides fitness plan development and assessment, intermediate-advanced skill performance in individual and dual game / sports, dance, aquatics and other lifetime sports. Theory application of game play strategies, officiating and creative student activities will be provided for selected sports.	0.50	N	HPE	
S04	Environmental Science	This Environmental Science Honors course is only for students enrolled in AP Environmental Science where the instructor has not yet been approved by the College Board.	1.00	N	LAB	SCI
S21	Biology I	Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest.	1.00	N	LAB	SCI
S22	Biology II	Designed for students to explore microbiology in depth. Using problem solving approach, students will be provided opportunities to research and explore areas of own interest. Emphasis is placed on using experimental design techniques and integrating mathematics, chemistry and environmental science.	1.00	N	LAB	SCI
S26	Intensive Biology	This course provides an opportunity for the accelerated student to explore Biology with more depth. An overview of topics, which include biological principles, cells, cellular organization and processes, and life's origin is provided. The bulk of the course is focused more on the microbiological and biochemical concepts and processes associated with life. In addition to laboratory activities, this course requires extensive independent and small group research on topics ranging from genetic engineering to specie extinction.	1.00	N	LAB	SCI
S31	Chemistry I	Emphasizes language of chemistry, laboratory skills needed to investigate properties of matter and energy, and the application of mathematical skills to the interpretation of data. Requires laboratory investigations with proper write-ups; analysis of the relationship between matter and energy; and problem solving through interpreting the periodic chart, application of gas laws, moles, stoichiometry, preparation and properties of solutions.	1.00	N	LAB	SCI
S32	Chemistry II	Bridges Chemistry I and Advanced Placement Chemistry. Student will gain understanding of organic chemistry through structure, properties, and reactions of biomolecules. Polymer chemistry will be studied as a distinct class of organic compounds.	1.00	N	LAB	SCI
S40	Principles Of Technology I	Provides training in advanced-technology career paths. Scientific principles of applied physics are combined with closely-integrated video and hands-on laboratory experiences. Applied physics and mathematics principles are taught through a unified systems approach. Topics covered include force, work, rate, resistance, energy, power, and force transformers.	1.00	N	LAB	SCI

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S41	Physics I	Provides introductory description and understanding of the physical universe, from the very large (astronomical) to the very small (atom). Laws of nature are explored through hands-on activities and problem solving related to concepts in mechanics (motion, forces), wave and light, heat, electricity and magnetism, and quantum physics. Conservation principles and energy conversion from one form to another and the interrelationships between physics technology and societal concerns are integrated throughout the course.	1.00	N	LAB	SCI
S56	Laboratory Techniques	Offers necessary training for pursuing a health career in medicine, dentistry, veterinary medicine, nursing, pharmacy, laboratory technician and related fields. Includes both theoretical and practical laboratory experiences related to the areas of microbiology, histology, vertebrate anatomy and physiology, and hematology. Laboratory experiences include techniques for studying microorganisms, microscopic identification of cells and tissues from prepared slides, dissection of the rabbit, blood typing and blood smears.	1.00	N	LAB	SCI
S57	Conc of Phys Science	In Conceptual Physics, students learn essential concepts of physics through demonstrations, laboratory work, and discussion. Careful gathering and analysis of quantitative data is stressed. Some of the topics covered in this course are mechanics, electricity and magnetism, sound, and light.	1.00	N	LAB	SCI
S58	Physics C Honors	This Physics C Honors course is only for students enrolled in AP Physics C where the instructor has not yet been approved by the College Board.		N	LAB	SCI
S64	Biology Honors	This Biology Honors course is only for students enrolled in AP Biology where the instructor has not yet been approved by the College Board.	1.00	N	LAB	SCI
S90	ENVIRONMENTAL SCI - PT A	This course is the first half of Environmental Science S03. It is for use in situations in which students transfer between programs before the full course has been completed. Provides scientific approach for study of environmental issues. Emphasis is placed on student's role in environmental management. Through data collection, analysis and hands-on activities, students explore topics such as ecosystems, biochemical cycles, interdependence, adaptation, succession, natural resources, and waste management. The hands-on approach will include both laboratory and field experiences.	0.50	N	LAB	SCI
S91	ENVIRONMENTAL SCI - PART B	This course is the second half of Environmental Science S03. It is for use in situations in which students transfer between programs before the full course has been completed. Provides scientific approach for study of environmental issues. Emphasis is placed on student's role in environmental management. Through data collection, analysis and hands-on activities, students explore topics such as ecosystems, biochemical cycles, interdependence, adaptation, succession, natural resources, and waste management. The hands-on approach will include both laboratory and field experiences.	0.50	N	LAB	SCI
S92	Biology I - Part A	This course is the first half of Biology I (S21). It is for use in situations in which students transfer between programs before the full course has been completed. Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest.	0.50	N	LAB	SCI
S93	Biology I - Part B	This course is the second half of Biology I (S21). It is for use in situations in which students transfer between programs before the full course has been completed. Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest.	0.50	N	LAB	SCI
S94	Chemistry I - Part A	This course is the first half of Chemistry I (S31). It is for use in situations in which students transfer between programs before the full course has been completed. Emphasizes language of chemistry, laboratory skills needed to investigate properties of matter and energy, and the application of mathematical skills to the interpretation of data. Requires laboratory investigations with proper write-ups; analysis of the relationship between matter and energy; and problem solving through interpreting the periodic chart, application of gas laws, moles, stoichiometry, preparation and properties of solutions.	0.50	N	LAB	SCI

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S95	Chemistry I - Part B	This course is the second half of Chemistry I (S91). It is for use in situations in which students transfer between programs before the full course has been completed. Emphasizes language of chemistry, laboratory skills needed to investigate properties of matter and energy, and the application of mathematical skills to the interpretation of data. Requires laboratory investigations with proper write-ups; analysis of the relationship between matter and energy; and problem solving through interpreting the periodic chart, application of gas laws, moles, stoichiometry, preparation and properties of solutions.	0.50	N	LAB	SCI
S96	Physics - Part A	Provides introductory description and understanding of the physical universe, from the very large (astronomical) to the very small (atom). Laws of nature are explored through hands-on activities and problem solving related to concepts in mechanics (motion, forces), wave and light, heat, electricity and magnetism, and quantum physics. Conservation principles and energy conversion from one form to another and the interrelationships between physics technology and societal concerns are integrated throughout the course. This is a 0.5 credit course and is partnered with S97. Approval is needed by the Director of Science for a school to schedule.	0.50	N	LAB	SCI
S97	Physics - Part B	Provides introductory description and understanding of the physical universe, from the very large (astronomical) to the very small (atom). Laws of nature are explored through hands-on activities and problem solving related to concepts in mechanics (motion, forces), wave and light, heat, electricity and magnetism, and quantum physics. Conservation principles and energy conversion from one form to another and the interrelationships between physics technology and societal concerns are integrated throughout the course. This is a 0.5 credit course and is partnered with S96. Approval is needed by the Director of Science for a school to schedule.	0.50	N	LAB	SCI
SB2	Biology 1B	Biology 1B is a continuation of Biology 1A. Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest.	1.00	N	LAB	SCI
SB3	Biology I A	Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest. This is a 0.5 credit course and is partnered with SB4. Approval by the Director of Science is needed for a school to schedule.	0.50	N	LAB	SCI
SB4	Biology I B	Designed to develop and enhance students' comprehension and appreciation of life. Focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual or group project on a topic of interest. This is a 0.5 credit course and is partnered with SB3. Approval by the Director of Science is needed for a school to schedule.	0.50	N	LAB	SCI
SB5	Biology II A	Designed for students to explore microbiology in depth. Using problem solving approach, students will be provided opportunities to research and explore areas of own interest. Emphasis is placed on using experimental design techniques and integrating mathematics, chemistry and This is a 0.5 credit course and is partnered with SB6. Approval by the Director of Science is needed for a school to schedule.	0.50	N	LAB	SCI
SB6	Biology II B	Designed for students to explore microbiology in depth. Using problem solving approach, students will be provided opportunities to research and explore areas of own interest. Emphasis is placed on using experimental design techniques and integrating mathematics, chemistry and This is a 0.5 credit course and is partnered with SB5. Approval by the Director of Science is needed for a school to schedule.	0.50	N	LAB	SCI
SE2	Environmental Science B	Environmental Science 1B is a continuation of Environmental Science 1A. Provides scientific approach for study of environmental issues. Emphasis is placed on student's role in environmental management. Through data collection, analysis and hands-on activities, students explore topics such as ecosystems, biochemical cycles, interdependence, adaptation, succession, natural resources, and waste management. The hands-on approach will include both laboratory and field experiences.	1.00	N	LAB	SCI

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SE3	Urban Ecology	<p>The course provides an introduction to the science of urban ecology and helps students understand their stakeholder role as stewards of the urban ecosystem. Through a series of scientific investigations, students develop a thorough knowledge of the biological, physical and social forces that shape urban neighborhoods over many scales of time and space. The discovery of the key ideas in ecology and the collection of data about the local environment ultimately lead students to the development of a collaborative action plan for urban sustainability. Major themes in the course include energy, climate change, land use, garbage, public health, biodiversity, animal behavior and public policy & all structured around the ideas of citizen participation and environmental justice. Each of the eight course modules revolve around driving questions, such as; How can I make my community a healthier place to live, or, How do we develop cities that sustain biodiversity? The curriculum is supported by a rich array of technology tools for collecting data and web-based investigations for data analysis and investigation.</p>	1.00	N	LAB	SCI
SP2	Concepts if Physical Science B	<p>Conceptual Physics 1B is a continuation of Conceptual Physics 1A. In Conceptual Physics, students learn essential concepts of physics through demonstrations, laboratory work, and discussion. Careful gathering and analysis of quantitative data is stressed. Some of the topics covered in this course are mechanics, electricity and magnetism, sound, and light.</p>	1.00	N	LAB	SCI
ST0	Work Based Learning-Engineering	<p>Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.</p>	0.50	Y	LAB	SCI
ST1	Introduction to Engineering Design	<p>This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. In this foundation course, students will learn problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.</p>	1.00	Y	LAB	SCI
ST2	Principals of Engineering		1.00	Y	LAB	SCI
ST3	Digital Electronics	<p>This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This foundation course explores the smart circuits found in calculators, video games and computers. Students use industry standard computer software in testing and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto routing program that generates printed circuit boards, and use appropriate components to build their designs. This course covers several topics including: analog and digital fundamentals, binary numbers, logic gates and functions, and Boolean algebra and circuit design.</p>	1.00	Y	LAB	SCI
ST4	Aerospace Engineering	<p>This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. Expands horizons with Projects developed with NASA-aerodynamics, astronautics, space-life sciences, and systems engineering.</p>	1.00	Y	LAB	SCI
ST5	Biotechnical Engineering	<p>This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. This course hones more advanced skills in biology, physics, technology, and mathematics and applies them to real-world biotech fields.</p>	1.00	Y	LAB	SCI
ST6	Civil Engineering and Architecture	<p>This course is support by and uses the curriculum provided by the Project Lead the way-Pre Engineering program. This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. The course covers topics such as: the roles of Civil Engineering and Architects, project planning, site planning, building design, and project documentation and presentation.</p>	1.00	Y	LAB	SCI

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ST7	Computer Integrated Manufacturing	This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. In this course students will learn to apply the principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design (ST1). Fundamental concepts of robotics used in automated manufacturing and design analysis are included.	1.00	Y	LAB	SCI
ST8	Engineering Design and Development	This course is support by and uses the curriculum provided by the Project Lead the Way-Pre Engineering program. This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers.	1.00	Y	LAB	SCI
ST9	Senior Project-Engineering	The Senior Project course is a challenging, student-driven, teacher-guided, culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	1.00	Y	LAB	SCI
S49	Physics B Honors			N	LAB	
S55	Independent Investigation	Offers laboratory experience for groups or individuals who wish to investigate a science problem under the supervision of a teacher or outside consultant approved by the teacher. For highly qualified and motivated students. Results of the investigation(s) are to be prepared in form(s) suitable for publication and must show evidence of approved laboratory procedures and protocols.	0.50		LAB	
M36	Probability & Statistics I	The emphasis during the first half of the course is on probability. Classical probability topics, including applications of the counting theory, are covered. Special topics include simulation of probability models using current technology, analysis of games of chance, reliability theory, decision theory, applications of Bayes theorem, and distribution theory.	0.50	N	MTH	
M37	Probability and Statistics II	During the second half of the course, topics of statistics are introduced, including many real-world applications. The goal of the course is to develop techniques necessary to allow the student to run a statistical test for a final project. The student will gather and organize data, and then analyze and interpret this data incorporating skills learned throughout the semester.	0.50	N	MTH	
M46	Advanced Topics in Mathematics	This course develops skills in inductive reasoning and encourages the use of discovery techniques. The purpose of the course is to highlight advanced topics in mathematics. Topics include methods of thinking in mathematics, number sequences, algebraic functions and their graphs, large numbers, polygons and polyhedra, tessellations, unusual mathematical curves, permutations/combinations, probability, statistics, networks, trees, mobius strips, and elementary number theory.	1.00	N	MTH	
M47	Transition to College Mathematics	This is a full year course for students who have completed Algebra 2, and whose background is insufficient to take Pre-Calculus. The course emphasizes the math, algebra, and geometry skills needed to succeed in a college math course.	1.00	N	MTH	
M51	Pre-Calculus	Topics of study for the Pre-Calculus course will include exponential, power, polynomial, rational, logarithmic, and piece-wise functions, along with trigonometric functions and their inverses. Students investigate and explore mathematical ideas using methods that help them gain a deep understanding of fundamental concepts, develop multiple strategies for analyzing complex situations, and acquire appropriate technological skills. Students analyze situations verbally, numerically, graphically, and symbolically. Effective communication skills are developed so that students are able to discuss, explain, and justify their thoughts and ideas. While mathematical skills are addressed, teaching is focused on developing deep understanding of concepts that will enable students to apply mathematical skills and make meaningful connections to life's experiences. The use of graphing calculators is an integral part of the course, allowing for exploration of a variety of approaches to solving problems.	1.00	N	MTH	
M54	Concepts & Context of Calculus	This course builds on students' experience with functions and introduces the basic concepts and skills of calculus. Students will investigate and apply the properties of polynomial, exponential, and logarithmic functions; broaden their understanding of the mathematics associated with rates of change; and develop facility with the concepts and skills of differential calculus as applied to polynomial, rational, exponential, and logarithmic functions. Students will apply these skills to problem solving in a range of applications.	1.00	N	MTH	

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M56	Honors Precalculus	This course further develops and integrates the major math strands of algebra, geometry, and trigonometry. It includes advanced units of study in elementary algebraic and transcendental functions; circle and triangle trigonometry; statistics & probability; two- and three- dimensional vectors; matrices, determinants & fractals; polar coordinates & complex numbers; sequences and series; and an introduction to calculus concepts of limits and derivatives.	1.00	N	MTH	
M61	AP Calculus AB	This is a college level class with college level expectations. Areas of study for the AP Calculus AB course will include limits, continuity, derivatives of functions, the definite integral, and their real-world applications, products, quotients, parametric functions, the calculus of exponential and logarithmic functions, the calculus of growth and decay, algebraic calculus techniques for the elementary functions the calculus of average, extreme and vector motion. Students investigate and explore situations graphically, numerically, and symbolically. The use of graphing calculators is an integral part of the course, allowing for exploration of a variety of approaches to solving problems. A comprehensive exam will be given at the end of each semester. The student will be required to take the AP Calculus Exam in May. Participation in study group is highly recommended.	1.00	Y	MTH	
M62	AP Calculus BC	This is a college level class with college level expectations. Areas of study for the AP Calculus BC course will include limits, continuity, derivatives of functions, the definite integral, and their real-world applications, products, quotients, parametric functions, the calculus of exponential and logarithmic functions, the calculus of growth and decay, algebraic calculus techniques for the elementary functions the calculus of average, extreme and vector motion. Students investigate and explore situations graphically, numerically, and symbolically. The use of graphing calculators is an integral part of the course, allowing for exploration of a variety of approaches to solving problems. A comprehensive exam will be given at the end of each semester. The student will be required to take the AP Calculus Exam in May. Participation in study group is highly recommended.	1.00	Y	MTH	
M64	AP Statistics	The purpose of the Advanced Placement course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data; Sampling and Experimentation; Anticipating Patterns; and Statistical Inference. The use of graphing calculators and statistical software is an integral part of the course allowing for exploration of a variety of approaches to solving problems.	1.00	Y	MTH	
M65	Civil Engineering & Architecture		1.00	Y	MTH	
MC1	AP Calculus AB Part A	This is a college level class with college level expectations. Areas of study for the AP Calculus AB course will include limits, continuity, derivatives of functions, the definite integral, and their real-world applications, products, quotients, parametric functions, the calculus of exponential and logarithmic functions, the calculus of growth and decay, algebraic calculus techniques for the elementary functions the calculus of average, extreme and vector motion. Students investigate and explore situations graphically, numerically, and symbolically. The use of graphing calculators is an integral part of the course, allowing for exploration of a variety of approaches to solving problems. A comprehensive exam will be given at the end of each semester. The student will be required to take the AP Calculus Exam in May. Participation in study group is highly recommended. This is a 0.5 credit course and is partnered with MC2. Approval is needed by the Director of Mathematics for a school to schedule.	0.50	N	MTH	
MC2	AP Calculus AB Part B		0.50	N	MTH	

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MP1	Pre-Calculus Part A	Students in Geometry study Euclid's postulates and theorems as the basis for an axiomatic system. Students explore geometry through inductive and deductive processes using proofs and making algebraic connections where appropriate. Topics of investigation include logic, angle and line relationships, triangles and other polygons, congruence, similarity, and coordinate geometry. Trigonometric ratios are used to solve triangle problems. Students use area, volume, geometric probability, and geometric relationships to solve real-life problems. Students use technology, constructions, and manipulatives to support their processes. Credit is awarded upon successful completion and passing the end-of-course exam. This is a 0.5 credit course and is partnered with MP2. Approval is needed by Director of Mathematics for a school to schedule.	0.50	N	MTH	
MP2	Pre-Calculus Part B	logarithmic, and piece-wise functions, along with trigonometric functions and their inverses. Students investigate and explore mathematical ideas using methods that help them gain a deep understanding of fundamental concepts, develop multiple strategies for analyzing complex situations, and acquire appropriate technological skills. Students analyze situations verbally, numerically, graphically, and symbolically. Effective communication skills are developed so that students are able to discuss, explain, and justify their thoughts and ideas. While mathematical skills are addressed, teaching is focused on developing deep understanding of concepts that will enable students to apply mathematical skills and make meaningful connections to life's experiences. The use of graphing calculators is an integral part of the course, allowing for exploration of a variety of approaches to solving problems. This is a 0.5 credit course and is partnered with MP1. Approval is needed by the Director of Mathematics for a school to schedule.	0.50	N	MTH	
U13	General Music	Provides a condensed study of musical structure and explores a variety of sensory experiences related to musical expression. Comparisons and contrasts are made between music of various periods. In-depth opportunities are provided to develop skills in performing, responding to, and creating music. Students who demonstrate special interest and talent may be identified and encouraged to seek additional study. This course may be used to satisfy graduation requirements.	0.50	N	MUS	
U14	From Bach to Rap	This course is designed to enhance and encourage the aesthetic appreciation of music in students. With emphasis on the affective elements of music, students will develop competencies in discriminatory listening, form analysis, and cross/cultural comparisons. It will begin with music from the period of Bach and continue up to the present contemporary trends, including rap music. This course may be used to satisfy graduation requirements.	0.50	N	MUS	
U17	Music History/Literature I	Presents a detailed study of the historical development of music from primitive man to the late 19th century. Relationships will be made between the important stylistic characteristics of various historical periods and major musical events. The lives and works of notable musicians and composers will be identified and analyzed by the student. This course may be used to satisfy graduation requirements.	0.50	N	MUS	
U18	Music History/Literature II	Presents a detailed study of the historical development of music from the beginning of the 20th century to contemporary times. Relationships between the important stylistic characteristics of various historical periods and major musical events will be analyzed. The lives and works of major musicians and composers will be analyzed and identified by the student. This course may be used to satisfy graduation requirements.	0.50		MUS	
U19	Music Theory	Provides students with skills for decoding music symbols as well as basic aural training. Students are expected to develop the ability to use concepts of tonality and metrical organization with melodic and rhythmic patterns, and to sing, play, and respond to music from the printed page.	0.50	N	MUS	
U25	Concert Band I	This course is designed to provide the student with ensemble ability on band instruments. Skills developed will include listening skills, intonation, balance, tuning, interpreting the gestures of a conductor, and development of concert band repertoire. The course focuses on repertoire expansion and involves the use of easy level music. Students may perform at the city-wide adjudicated concert band festival.	1.00	N	MUS	

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U35	Orchestra I	Provides the student with ensemble ability on orchestral instruments and development of orchestral repertoire. Skills developed include listening skills, appropriate bowing techniques, interpreting the gestures of a conductor, tuning, balance, and development of standard orchestral literature. The course focuses on repertoire expansion and involves the use of easy level music.	1.00	N	MUS	
U51	Concert Choir I	Offers students an opportunity to acquire a fundamental choral experience. Students are trained to demonstrate correct breathing, tone quality, voice blending diction, and interpretation of music notation. Aural recognition of basic voice categories is developed and three and four part harmonies are emphasized; using appropriate choral techniques for artistic performance is stressed. Students may participate in the city-wide adjudicated choral festival.	1.00	N	MUS	
U57	Music Theory/Ear Training I	Provides students with skills for decoding music symbols as well as basic aural training. Students are expected to develop the ability to use concepts of tonality and metrical organization with melodic and rhythmic patterns. Students will also sing, play, and respond to music from the printed page. Activities will also include: distinguishing the timbre of individual instruments and families of instruments, including the human voice; sight reading music using solfege symbols or numbers, and analyzing and comparing examples of polytonality and tonality. This course may be used to satisfy graduation requirements.	1.00	N	MUS	
U58	Music Theory/Ear Training II	Focus is on understanding music as written or heard. Exercises and drills are used to support student learning. Students completing this course will develop a conceptual understanding of sight reading, rhythmic and melodic notation, principles of composition, constructing major scales, and chords and intervals. Students are required to complete an original composition with notation for rhythm and melody. This course may be used to satisfy graduation requirements.	1.00	N	MUS	
U59	Music Theory./Ear Training III	Uses exercises and drills to support student learning in the application of rhythmic, melodic, and harmonic notation and the principles of composition. Students completing this course will demonstrate knowledge of sight reading; rhythmic and melodic dictation; harmony using the I, IV, and V chords; writing and singing major and relative minor scales; major, minor, and dominant chord construction, and identifying intervals aurally and visually. Additionally, students will analyze compositions and selections of larger works. Students are required to complete an original composition according to guidelines given by the instructor.	1.00	N	MUS	
U62	AP Music Theory	Provides advanced study of music theory, composition, and harmony. Students demonstrate proficiency in their knowledge of melodic and chordal construction and progressions, scales and arpeggios (major/minor), rhythm and meter, modes, and compositional principles. Activities include: sight singing; rhythmic, melodic, and harmonic analysis and dictation; transcription; transposition; keyboard sightreading, and some study of harmony and counterpoint in the style of Johann Sebastian Bach. Students are required to complete an original composition in 18th century fugue or chorale style according to specific guidelines given by the instructor.	1.00	Y	MUS	
U63	Accelerated Piano I & Music Theory	Designed to introduce students to basic piano fundamentals in conjunction with providing students skills for decoding music symbols and basic aural training. The content of both UF8 and U57 are covered in this accelerated class. Students learn familiarization with the keyboard, left and right hand coordination, note reading skills, scales, and basic piano literature. Students are expected to develop the ability to use concepts of tonality and metrical organization with melodic and rhythmic patterns. Students will also sing, play, and respond to music from the printed page. Activities will also include: sight reading music using solfege symbols, and analyzing and comparing examples of polytonality and tonality.	1.00	N	MUS	
U88	Marching Band I	Provides opportunities to study/perform marches and other primarily military music. Prepares students to participate in parades, competitive drills, and ceremonies. Easy to intermediate level marching band repertoire and marching techniques will be used. Students will apply the fundamentals of instrumental music, articulate standard band literature, and execute basic marching band techniques and maneuvers in traditional 8 to 5 Corps Style.	1.00	N	MUS	

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UB1	Marching Band I A	Provides opportunities to study/perform marches and other primarily military music. Prepares students to participate in parades, competitive drills, and ceremonies. Easy to intermediate level marching band repertoire and marching techniques will be used. Students will apply the fundamentals of instrumental music, articulate standard band literature, and execute basic marching band techniques and maneuvers in traditional 8 to 5 Corps Style. This is a 0.5 credit course and is partnered with UB2. Approval by the Director of Music is needed for a school to schedule.	0.50	N	MUS	
UB2	Marching Band I B	Provides opportunities to study/perform marches and other primarily military music. Prepares students to participate in parades, competitive drills, and ceremonies. Easy to intermediate level marching band repertoire and marching techniques will be used. Students will apply the fundamentals of instrumental music, articulate standard band literature, and execute basic marching band techniques and maneuvers in traditional 8 to 5 Corps Style. This is a 0.5 credit course and is partnered with UB1. Approval by the Director of Music is needed for a school to schedule.	0.50	N	MUS	
UD5	Jazz Band/Orchestra I	JAZZ BAND/ORCHESTRAL: Provides the opportunity for students who demonstrate good technical and improvisational talent to play music in a jazz/popular ensemble. Easy to low intermediate level standard/original jazz and popular literature is introduced. Activities include the study of scales, chords, and various approaches are used to instill improvisational techniques. Students participate in field trips and in-house/public performances. Students may perform at the citywide jazz festival.	1.00	N	MUS	
UE1	Wind Ensemble/Symphonic Band I	WIND ENSEMBLE/SYMPHONIC BAND I: Provides instruction for students with previous training and ensemble ability on wind instruments as well as students who play instruments not included in concert/marching band (e.g., French horn, oboe, bassoon, English horn). The primary focus is: listening skills, intonation, balance, tuning, interpreting the gestures of a conductor, sight reading and the development of easy to low intermediate level symphonic band music. Students may perform at the citywide adjudicated concert band festival.	1.00	N	MUS	
UE5	Show Choir I	Focuses primarily on show music and jazz with movement. The course establishes a choral performing ensemble that may sing music in any style, but usually the first year includes basic training in choral singing and movement. Students may participate in the adjudicated city-wide choral festival.	1.00	N	MUS	
UF8	Piano Lab I	This course is designed to introduce students to basic piano fundamentals. Students learn familiarization with the keyboard, left and right hand coordination, note reading skills, scales, and basic piano literature.	1.00	N	MUS	
UG1	Computer Music Applications I	Explores introductory and beginning integration of music performance, improvisation, composition and notation technology applications. Students explore internet basics and the use of multimedia/MIDI software and equipment. They use such programs as Band-In-A-Box to generate rhythms in various styles, enter chord changes, control the tempo and style, and/or transpose changes to a different key. Music fundamentals are reinforced through use of software designed for learning to read, play, and interpret music.	1.00	N	MUS	
X71	IB Music Standard Level Part I	To be added.	1.00	N	MUS	
X72	IB Music Standard Level Part II	To be added.	1.00	N	MUS	
X73	IM Music High Level Part I	To be added	1.00	N	MUS	
X74	IM Music High Level Part II	To be added	1.00	N	MUS	
S03	Environmental Science	Provides scientific approach for study of environmental issues. Emphasis is placed on student's role in environmental management. Through data collection, analysis and hands-on activities, students explore topics such as ecosystems, biochemical cycles, interdependence, adaptation, succession, natural resources, and waste management. The hands-on approach will include both laboratory and field experiences.	1.00	N	SCI	LAB

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S16	Intro Anatomy & Physiology	Offers students an in-depth look at the anatomy and physiology of man. Students explore every aspect of the human body: organization from tissues to organs to systems; the systems and their functions; and the biochemical effects on the body of alcohol, tobacco, and designer drugs. Through a combination of laboratory experiments, demonstrations and the utilization of community resources, students become aware of the way the human body functions and its relationship to societal health issues.	0.50	N	SCI	LAB
S17	Anatomy & Physiology	Students will build on information learned in biology and focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare careers. Through lecture, labs, and activities, students will review human anatomy and increase their knowledge of how the human body works.	1.00	N	SCI	LAB
S19	Principles of Botany	Provides an in depth- examination of the plant kingdom with emphasis on anatomy and physiology of plant materials, diversity, evolutionary adaptations, and organismal change. Instructional experiences include laboratory investigations, field study and use of multi-media and technological resources.	0.50	N	SCI	LAB
S24	Applied Biology/Chemistry	Utilizes applications-oriented approach to teach concepts of biology and chemistry. Emphasis is placed on problem solving, decision making and hands-on learning. Course consists of twelve modular units that integrate the treatment of biology and chemistry as a unified domain of subject matter. Units are: natural resources; water, air and other gases; plant growth and reproduction; continuity of life; nutrition, disease and wellness; life processes; waste and waste management; synthetic materials; microorganisms; and community life.	1.00	N	SCI	LAB
S34	Inorganic Chemistry	Emphasizes the development of special language of symbols, formulas, and equations that express the relationships of one chemical to another. Fundamentals of stoichiometry, equilibrium, calculations, application of thermodynamics to chemical synthesis ; gases, liquids, solids, chemical reactions, and atomic structure will be covered.	1.00	N	SCI	LAB
S35	Organic Chemistry	Presents the classification of organic compounds, emphasizes the characteristic group of each class, and discusses the important physical and chemical properties and possible domestic and commercial uses of selected organic compounds.	1.00	N	SCI	LAB
S46	Intro to Marine Science	Surveys inter-disciplinary relationships between the biological, chemical, physical, and meteorological aspects of marine science/oceanography. Through laboratory experiments, the student will be able to master the scientific requirements necessary for entry into various careers in the marine science career field.	1.00	N	SCI	LAB
S05	AP ENVIRONMENTAL SCIENCE	The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.	1.00	Y	SCI	
S06	Principles of Zoology	Provides in-depth examination of the animal kingdom with emphasis on diversity, evolutionary adaptations, mutations and organismal change. Laboratory, field experiences, and use of media aid in making this an interactive course.	0.50	N	SCI	
S20	Ecology	Introduces ecological terminology and concepts. Integrated relationships among living organisms and the environment is studied through observation using outside resources. Contemporary human ecological problems are studied: pollution, population stress, and energy systems. Various systems and cycles are studied.	0.50	N	SCI	
S23	AP Biology	Designed to be the equivalent of freshman college biology. Students will participate in both individual and group experimental projects related to biochemistry, genetics, information coding and transfer, the origin of multicellularity, organismal behavior, and evolutionary ecology.	1.00	Y	SCI	

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S33	AP Chemistry	Designed to be the equivalent of freshman college chemistry. Students are required to perform experiments covering a minimum of 21 activities (skills) prescribed by the College Board. They will investigate topics such as: the quantum mechanical atom; periodic relationships; bonding forces; geometric relationships and coordination complexes of molecules; nuclear chemistry; ideal gases; colligative properties of solutions; oxidation reduction reactions; reaction kinetics; thermodynamics; and stoichiometric determinations of empirical and molecular organic formulas.	1.00	Y	SCI	
S42	AP Physics	Designed to be the equivalent to freshman college course in physics. Covers topics in mechanics, electricity, magnetism, thermodynamics, kinetic theory, and electronics	1.00	Y	SCI	
S45	Earth Science	Designed to use the discovery method of learning and a hands-on, activity centered approach in the study of earth science concepts. Content areas to be included are geology, meteorology, oceanography, and space science. Field experiences are an essential component of the course.	1.00	N	SCI	
S47	Intro to Physical Oceanography	Introduces physical properties of the ocean and its cause and effect relationships: temperature, salinity, pressure, and density. Students explore topics such as hydrologic cycles, thermal properties, energy transport, fluid dynamics, light and sound transmission, currents and applications in hydraulics.	0.50	N	SCI	
S48	Physical Oceanography	Continues study of physical oceanography. Students complete the study of following topics: hydrologic cycles, thermal properties, energy transport, fluid dynamics, light and sound transmission, currents, and applications in hydraulics.	1.00	N	SCI	
S62	AP Physics C	This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The sequence is more intensive and analytic than that in the B course. The subject matter of the C course is principally mechanics and electricity and magnetism, with approximately equal emphasis on these two areas. Recommended prerequisite or concurrent: calculus.	1.00	Y	SCI	
HC8	Principles of U.S. Government	In this course, students apply knowledge gained in previous years of study to pursue a deeper understanding of the institutions of American Government. In addition, they draw on their studies of world and American history and geography and other societies to compare differences and similarities in world governmental systems today. This course is the culmination of history/social sciences classes to prepare students to solve society's problems, to understand and to participate in the governmental process, and to be a responsible citizen of the United States and the world.	0.50	N	USG	
HP2	AP U.S. Government	The Advanced Placement course in United States Government and Politics is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States politics and an examination of the various institutions, groups, beliefs, and ideas that make up American politics. The course is taught with college-level texts. Preparation for the A.P. test will be an integral part of the course.	0.50	Y	USG	
HC7	U.S. History/Geography: Industrial to the Present	This course begins with a review of the settlement of the colonies and the American Revolution, westward expansion, the Civil War and Reconstruction. This should provide the students with a connection to their past learning. Students will then examine the major turning points in American History from the Industrial Revolution through the twentieth century. Emphasis should be placed on the expanding role of the federal government and the federal courts; the balance of power between the right of the individual and states rights; and the continuing struggle between minority rights and majority power. Importance should also be placed on the emergence of a modern corporate economy, the impact of technology on American society and culture, the movements toward equal rights for racial minorities and women, and the role of the United States as a major world power.	1.00	N	USH	

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HP1	AP U.S. History	The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. This program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Students will learn to assess historical materials - their relevance to a given interpretive problem, their reliability, and their importance - and to weigh the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.	1.00	Y	USH	
ZB1	Biotechnology I	Designed as an introductory course for students with an interest in Biotechnology. This course seeks to reinforce laboratory safety and the understanding of biological concepts. Methods and skills essential to biotechnology are emphasized, including microbiological techniques, aseptic handling, plant propagation by cloning, and working with macromolecules and animal cell culture.	1.00	Y	VOC	SCI
A84	Computer Graphics I	Computer Graphics I	0.50	Y	VOC	
A85	Computer Graphics II	Computer Graphics II	0.50	Y	VOC	
AM0	Introduction To Museum Studies	Introduction To Museum Studies	1.00	Y	VOC	
AM1	Exhibition Design I	Exhibition Design I	1.00	Y	VOC	
AM2	Exhibition Design II	Exhibition Design II	1.00	Y	VOC	
AM3	Museum Communications I	Museum Communications I	1.00	Y	VOC	
AM4	Museum Communications II	Museum Communications II	1.00	Y	VOC	
AM5	Museum Communications III	Museum Communications III	1.00	Y	VOC	
AM6	Museum Education & Interpretat	Museum Education & Interpretat	1.00	Y	VOC	
AM8	Museum Registration	To be added	1.00	Y	VOC	
B22	Keyboarding	Provides students with the skill of proper touch fingering for keyboards, such as word processors, computers, and calculators. Students learn the touch method of fingering in order to expeditiously input data into these machines.	0.50	Y	VOC	
B50	Introduction to Financial Services	Teaches students about the major functions of banks and other depository institutions, their in-house operations and procedures, central banking through the Federal Reserve System, and current trends in the banking industry. The credit component provides an overview of credit functions and operations, including credit risk evaluation, loan creation, and debt collection (NAF).	1.00	Y	VOC	
B55	Investment Science	Investment Science	0.50	Y	VOC	
B60	Entrepreneurship	Explores the various aspects of ownership of businesses. This course is a hands-on approach where students develop business plans, purchase a product line, sell the product, and do a cost analysis. Guest entrepreneurs will lecture and tell their stories (NFTE).	0.50	Y	VOC	
B76	Office Assistant I	Trains students in the duties, responsibilities, and scope of various office jobs such as receptionist, file clerk, typist, and related clerical jobs. Students are expected to perform general office clerical duties on a regularly scheduled, continuous basis in the various offices of the school, or administrative offices. Before enrolling in this course, students must receive authorization from the building chairman of business education, the administrative assistant in the principal's office, the cooperative education office, or other staff designated by the principal.	0.50	Y	VOC	

High School Courses that Fullfill DCPS Graduation Requirements in Specific Categories 2009-2010

BA0	Work-Based Learning-Accounting	Work-Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
BA1	Principles of Business Admin and Management	Provides students with an understanding of the characteristics of business and its environments: economic, international, social, and ethical. Content includes forms of business ownership and the law, information and communication systems, financial management and the responsibilities of managers, production and marketing management, and human resources management.	1.00	Y	VOC	
BA3	Entrepreneurship	Explores the various aspects of business ownership. This hands-on course facilitates students in developing business plans, purchasing a product line, selling the product, and conducting a cost analysis. Guest entrepreneurs will lecture and tell their stories.	0.50	Y	VOC	
BA5	Business Communications	Improves oral and written skills for the workplace. Topics include nonverbal communication and communicating in a diverse workplace, the writing process, writing memos, e-mail, letters, reports, and job applications, researching and using information, preparing and delivering presentations, and interviewing skills.	0.50	Y	VOC	
BA6	Business Law	Provides students with an introduction to law for business and personal use. Following an introduction to the American legal system, students will explore issues pertaining to employment contracts, unions, employment discrimination, employee injuries, forms of business organization, government regulation of business, and sales contracts.	0.50	Y	VOC	
BA7	International Business	Students learn basic economic principles while developing an understanding of the nature of our global economy. They will become familiar with the varied resource bases of different nations and the impact of production, trade and investment on the economic health of these nations. They will learn about the international movement of material and human resources, potential intercultural problems and the effect of international agreements and regulations on businesses and individuals. They will also learn how companies are responding to a globalized economy and the challenges that such an economy presents.	0.50	Y	VOC	
BA8	MS Office Applications	Students develop advanced skills in Microsoft Office Applications including Word, Excel, PowerPoint, Access, Outlook and Publisher/FrontPage. Students will be expected to think analytically, manipulate information, and use the computer as a productivity tool through integrated application programs. Expertise in technology will contribute to students' future career mobility, advancement potential, compensation, and job satisfaction. Competencies are based on the Expert Level for the MOS certification exam.	1.00	Y	VOC	
BA9	Senior Project-Accounting	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
BF0	Work Based Learning-Finance	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	

High School Courses that Fullfill DCPS Graduation Requirements in Specific Categories 2009-2010

BF1	Economics and the World of Finance	This course in macro and microeconomics provides an understanding of how our market economy functions in a global setting. It provides students with a survey of economic concepts including all of the twenty-two basic principles recommended by the National Council on Economic Education. In addition, a unit on capital markets acquaints students with the role that markets and securities play in our overall economic framework.	0.50	Y	VOC	
BF2	Banking and Credit	Presents a survey of the principles and practices of banking and credit in the United States. Students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System and modern trends in the banking industry. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation, and debt collection. This course culminates in the Fed Challenge project.	0.50	Y	VOC	
BF3	Accounting	Provides students with the basic principles of accounting, including the double-entry system, the accounting cycle, merchandise transactions, treatment of inventories, cash, internal control, receivables, payables, plant assets, and corporation accounting. The course takes students through the complete accounting cycle for a sole proprietorship, partnership, and corporation.	1.00	Y	VOC	
BF4	Securities	Focuses on the roles and functions of a modern securities organization. Through a study of the structure of brokerage firms, the trading process, credit and margin practices, automated processes, and government regulations, students gain an understanding of how a securities firm serves its customers and plays an important role in our economy. Students are given the opportunity to relate their knowledge of economics, accounting, and data processing to the operational areas of various sectors in the securities industry. Emphasis is placed on the skills and attitudes necessary for success in business and college.	0.50	Y	VOC	
BF5	Insurance	Introduces students to various elements of the insurance industry, including insurance needs and products for businesses and individuals. Students learn about insurance sales, rate-setting, insurance and financial planning, insurance regulations, and careers in the industry.	0.50	Y	VOC	
BF6	Advanced Accounting	Designed for students who plan to continue studying accounting at the college level. Includes a review of accounting for corporations, long-term debt, statement of cash flows, financial statement analysis, cost accounting, activity-based costing, cost/volume/profit analysis, incremental analysis, operations and capital budgeting.	1.00	Y	VOC	
BF7	Financial Planning	Introduces students to the financial planning process and the components of a comprehensive financial plan. Students learn how to prepare a financial plan that includes saving, investing, borrowing, risk management (insurance), and retirement and estate planning.	0.50	Y	VOC	
BF8	International Finance	Explores major components of the international financial system. This course ncludes the study of foreign trade, international monetary systems, foreign exchange rates and markets, international financial markets, international banking, and the multinational corporation.	0.50	Y	VOC	
BF9	Senior Project-Finance	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
BM0	Work Based Learning-Marketing		0.50	Y	VOC	

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BM1	Introduction to Business	This course introduces the students to the world of business and it covers business and finance topics with a survey-like approach. Topics covered include business operations, small-business management, business fundamentals, marketing, career planning, social responsibility and ethics, basic economics, technology, finance, operations, risk management, consumer decision-making, and insurance.	0.50	Y	VOC	
BM2	Marketing 1	Introduces students to the processes and functions involved in transferring business products or services to a consumer. Students gain understanding of various functions of marketing and how each function fits with the others to become an integrated whole. Real-world applications or simulated activities will be used to enhance students' understanding of the conceptual framework learned in the classroom.	0.50	Y	VOC	
BM3	Entrepreneurship	This hands-on course teaches students the basic knowledge and skills for starting and operating a small business. Students learn about various aspects of business ownership including pricing, merchandising, bookkeeping, advertising/promotions, inventory control, cost analysis and business planning. Students will apply what they learned from the classroom to real life business situations through simulations, projects, competitions and assignments using computer technology. Students will complete and present a basic business plan using a standard format developed by the National Foundation for Teaching Entrepreneurship (NFTE). Guest entrepreneurs will lecture and tell their stories.	1.00	Y	VOC	
BM4	Marketing 2	Students will engage in more in-depth discussions in business planning, marketing research, competitive marketing, product development/distribution/promotion, pricing, technology driven marketing and international marketing. Through project-based, hands-on activities, students will learn how to conduct research and use data and information technology to make effective marketing strategies and business decisions. Students will be better prepared with the competence necessary for full-time employment or postsecondary education in the field of marketing.	0.50	Y	VOC	
BM5	International Business	Students will engage in more in-depth discussions in business planning, marketing research, competitive marketing, product development/distribution/promotion, pricing, technology driven marketing and international marketing. Through project-based, hands-on activities, students will learn how to conduct research and use data and information technology to make effective marketing strategies and business decisions. Students will be better prepared with the competence necessary for full-time employment or post-secondary education in the field of marketing.	0.50	Y	VOC	
BM6	Sales and Services	Provides students with fundamental skills and knowledge of the retail industry to prepare them to take the National Retail Federation's exam for Professional Certification in Customer Service. Content topics address the importance and skills of providing superior customer service, successful selling, planning a business strategy and managing business functions.	0.50	Y	VOC	
BM7	Marketing with E-Commerce	Equips students with the technological expertise to be productive employees in a rapidly changing economy. Content topics address how business is conducted on the internet, internet information services and search engines, internet marketing, digital advertising, online customer behavior, online partnerships, security/privacy issues, and global e-commerce.	0.50	Y	VOC	
BM9	Senior Project-Marketing	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	

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C28	Clothing & Textiles I	Focuses on standards of quality in hand and commercially made clothing, art in relation to clothing and personal appearance, wardrobe budgeting, costume history, fashion study and clothing construction. Class experiences include using commercial patterns in understanding garments, purchasing textile fabrics, understanding the storage and seasonal care of clothing, and becoming an intelligent shopper through the study of labels, commercial construction techniques and textile merchandise. Career opportunities are explored.	1.00	Y	VOC	
C28	Clothing & Textiles I	Focuses on standards of quality in hand and commercially made clothing, art in relation to clothing and personal appearance, wardrobe budgeting, costume history, fashion study and clothing construction. Class experiences include using commercial patterns in understanding garments, purchasing textile fabrics, understanding the storage and seasonal care of clothing, and becoming an intelligent shopper through the study of labels, commercial construction techniques and textile merchandise. Career opportunities are explored.	1.00	Y	VOC	
C29	Clothing & Textiles II	Clothing & Textiles II: Presents a comprehensive theoretical and skills approach to textiles for students planning undergraduate study in textiles, clothing and the fashion industry. Job opportunities, higher education placement, and consumer skills will be stressed.	1.00	Y	VOC	
C29	Clothing & Textiles II	Clothing & Textiles II: Presents a comprehensive theoretical and skills approach to textiles for students planning undergraduate study in textiles, clothing and the fashion industry. Job opportunities, higher education placement, and consumer skills will be stressed.	1.00	Y	VOC	
D35	Communication Skills & Techniques	COMMUNICATION SKILLS & TECHNIQUES: Develops effective communication skills: efficient listening, oral, written, and audiovisual. Provides students with a basic knowledge of the Interpretive Technician. Voice, tone, diction, enunciation, and pronunciation are stressed. Pleasant and proper telephone manners and human relations are emphasized.	0.50	Y	VOC	
DC0	WORK-BASED LEARNING-CULINARY	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
DC1	Culinary Arts I	Introduces students to the fundamentals of culinary arts, beginning with preparatory steps for becoming successful restaurant and food service professionals. Students learn kitchen basics, business math, and how to work effectively with others, including developing successful customer relations. Training is provided in all aspects of food handling safety to prepare students for ServSafe certification.	1.00	Y	VOC	
DC2	Culinary Arts II	Provides training focusing on nutritional guidelines and menus, processes for preparing breakfast foods, sandwiches, fruits and vegetables, salads and garnishes, potatoes and grains, desserts and baked goods, meat, poultry, seafood, stocks, soups, and sauces. The function and maintenance of food service equipment is also included.	1.00	Y	VOC	
DC3	Culinary Arts III	Students learn the history of food service and the art of service. In addition to further developing skills for communicating with customers, students learn about the relationships between menu composition, marketing, and catering. Extensive review and practice of culinary techniques is included to prepare students for competition in national, industry-sponsored culinary competitions.	1.00	Y	VOC	
DC4	Entrepreneurship, Marketing, and Senior Project	Provides knowledge for writing business plans and operating a small business, including purchasing and inventory control, and standard accounting practices.	1.00	Y	VOC	
DC5	Food Technology			Y	VOC	

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DC6	Baking Fundamentals I	Introduces students to the fundamental skills, concepts and techniques of baking. Special emphasis is placed upon the study of ingredients and familiarizing students with the bakeshop environment. Topics of instruction will include the use of the equipment, baking techniques for cookies, yeast breads, quick breads, custards and creams, pies and cakes. Instruction is provided in all aspects of food handling safety to prepare all students for ServSafe Certification.	1.00	Y	VOC	
DC7	Baking Fundamentals II	Provides instruction in the more advanced techniques of baking and pastries. Students will learn decorating techniques with cakes and frostings, making tarts and tortes, working with chocolate and more. This course emphasizes individual production and learning through feedback and daily assignments that are geared to introduce, practice and verify key skills.	1.00	Y	VOC	
DC9	SENIOR PROJECT-CULLINARY	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
DF3	Food Service and Safety	Food Service and Safety entails comprehensive training in all aspects of food safety and preparation for ServSafe certification. Students learn how food becomes unsafe, how to ensure food safety throughout the flow of food operation systems, and how to prevent accidents and injuries.	1.00	Y	VOC	
DH0	WORK BASED LEARNING-HOSPITALITY	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
DH1	Hospitality I	This course focuses on the back-of-the-house functions in the hospitality industry. Students will study marketing and sales in the industry. They will review marketing plans, banquet and meeting room sales, and the hotel's connection with the food service industry. Students will learn how to plan menus for banquets and catered events and study restaurant themes. Room service will also be addressed.	1.00	Y	VOC	
DH2	COMPUTER APPLICATIONS I-HOSPITALITY	This course develops basic computer skills through practical applications with variouss software programs, including word-processing, databases and spreadsheets. Concentration is also placed on software applications designed for the food service industry, including recipe and menu development, nutritional analysis, inventory management and cost accounting.	0.50	Y	VOC	
DH3	Hotel Management and Operations	This course focuses on basic management and operations in the hospitality industry, including topics such as housekeeping management, housekeeping inventory, guestroom cleaning, laundry management, carpet construction and maintenance, safety and security management, leadership, communication skills, team building, and career development.	0.50	Y	VOC	
DH4	Hospitality II	Students will study the structure and organization of the hospitality industry with emphasis on providing guest service and the operations connected with guests. A thorough study of the front-of-the-house operations will acquaint students with the guest cycle, reservation and registration systems, and the night audit process. Students will learn checkout procedures and the various methods of account settlement. The curriculum also stresses the importance of telecommunications in the industry.	1.00	Y	VOC	
DH5	COMPUTER APPLICATIONS II-HOSPITALITY	Incorporates prior knowledge of computers with advanced levels of software packages designed for the hospitality and tourism industry. A segment of the course will be devoted to studying specific hotel registration systems, and airline, train and bus reservations and departures software. Software used by travel agencies to identify travel destinations and the process for booking trips will also be explored. Students will plan a trip for an imaginary client using all of the available systems.	0.50	Y	VOC	
DH6	Law and Hospitality Industry	Introduces students to legal issues relevant to the hospitality industry. After an introduction to the legal system in the United States, students will explore issues pertaining to employment contracts, unions, employment discrimination, employee injuries, forms of business organization, government regulation of business, and sales contracts.	0.50	Y	VOC	

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DH9	SENIOR PROJECT-HOSPITALITY	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
DS1	Strategies for Success	This course helps orient students to the world of work and school. It is offered in the tenth grade to address the need for students to develop good work and study habits. Additionally, this course helps students learn to prepare portfolios, learn about school resources, develop career plans, begin preparing for college, and develop effective interpersonal skills.	0.50	Y	VOC	
DT0	WORK BASED LEARNING-TOURISM	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
DT1	Introduction to Hospitality and Tourism	Exposes students to the various components of the hospitality industry, including marketing and sales, lodging management, front desk operations, food and beverage, and culinary services.	0.50	Y	VOC	
DT5	Economics for Hospitality and Tourism	This basic principles-and-practices course parallels the concepts taught in a standard economics course and is intended to be taken by students in the Travel and Hospitality Major in lieu of the economics course taught at their school. Throughout this course, examples of economic principles are drawn from the world of hospitality and tourism in order to integrate academic learning and practical business applications.	0.50	Y	VOC	
DT6	Travel Destinations	Students will comprehensively review popular tourist destinations worldwide and modes of transportation. This course will review the internships students experienced during the summer months and the impact of the internships on students' preparation for the hospitality industry. Students will set and review their personal, career and college goals.	0.50	Y	VOC	
DT7	Geography for Hospitality and Tourism	This course is designed for the development of broad geographic skills. In addition to learning how to use the basic tools of the geographer, students learn how economics, culture, history, and political issues all affect the study of geography, and how geography affects other disciplines.	0.50	Y	VOC	
DT9	SENIOR PROJECT-TOURISM	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
E42	Journalism I	This course emphasizes techniques of writing for a newspaper or magazine. Students will study theories and procedures of journalism and examine all aspects of newspaper publication (gathering, writing, editing, displaying the news, and using technology) and other mass media.	1.00	Y	VOC	
E43	Journalism II	This course builds upon the skills learned in Journalism I with a focus on building advanced skills such as use of the latest technology to produce a high school newspaper. Students will assign and produce all publishing tasks: writing stories, editing copy, designing ads, writing headlines, and making layout designs. This course is recommended for students interested in related careers.	1.00	Y	VOC	
E44	Journalism III	This course builds upon the skills learned in Journalism II. Students will apply all aspects of the writing process (i.e., prewriting, drafting, editing, and proofreading) to written work. They will be introduced to skills necessary to produce a variety of mass communications documents. Students will demonstrate knowledge of organization and management techniques relating to mass communications, including leadership and business skills, time management, and use of personnel and task organization. This course is recommended for students interested in related careers.	1.00	Y	VOC	
E71	Acting I	This course introduces the first year student to acting. The student will demonstrate an understanding of sensory exercises, concentration, stage vocabulary, emotion memories, and monologues. Students will also participate in contemporary scene study.	1.00	Y	VOC	

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E72	Acting II	This course builds upon skills attained in Acting I by extending analysis of scene and monologue study. This course will address associated vocabulary and techniques needed to develop competence. Emphasis will be placed on elementary blocking.	1.00	Y	VOC	
E73	Acting III	This course builds upon the skills addressed in Acting II. Students will be presented with techniques of projection, vocal exploration, movement, and classical and contemporary blocking techniques. Emphasis will be placed on script and play analysis through written reports and testing.	1.00	Y	VOC	
E74	Acting IV	This course builds upon skills addressed in Acting III. Students will demonstrate their understanding of audition techniques, classical theater, and Hagan improvisations. The students will perform scenes varying from the Greeks to recent American experimental theater.	1.00	Y	VOC	
EA1	Writing Workshop II	This course addresses the development and use of intermediate-level writing and language skills for creative expression in a variety of literary forms. Emphasis will be placed on the development of a personal writing style. Students will analyze literary models; discuss, read, and write about the impact of audience, purpose, and writing mode; employ writing process strategies; develop a personal writing style; engage in various creative writing experiences; use peer review techniques; and publish their final writing products.	1.00	Y	VOC	
EA2	Writing Workshop III	The focus of this course is on developing writing and language skills needed for individual expression in traditional poetic forms. Students will read, analyze, and write Blues, Ballad, Asian, Italian, French forms and traditional forms; analyze the technical aspects of entering contests; publish student work in a literary publication; analyze technical aspects of entering and performing in a public reading; and perform in a public reading.	1.00	Y	VOC	
EA3	Writing Workshop IV	In this course, students develop a compilation of works of professional literary merit in the form of a chapbook, essay or short story collection. Students will engage in a thorough and in-depth examination of a variety of short literary collections which include a variety of peer, teacher, and professional examples; and they will develop and organize polished material for their collection.	1.00	Y	VOC	
EJ1	Journalism I Part A	This course emphasizes techniques of writing for a newspaper or magazine. Students will study theories and procedures of journalism and examine all aspects of newspaper publication (gathering, writing, editing, displaying the news, and using technology) and other mass media. This is a 0.5 credit course and is to be partnered with EJ2. Approval is needed by the Director of English for a school to schedule.	0.50	Y	VOC	
EJ2	Journalism I Part B	This course emphasizes techniques of writing for a newspaper or magazine. Students will study theories and procedures of journalism and examine all aspects of newspaper publication (gathering, writing, editing, displaying the news, and using technology) and other mass media. This is a 0.5 credit course and is to be partnered with EJ1. Approval is needed by the Director of English for a school to schedule.	0.50	Y	VOC	
EJ3	Journalism II Part A	This course builds upon the skills learned in Journalism I with a focus on building advanced skills such as use of the latest technology to produce a high school newspaper. Students will assign and produce all publishing tasks: writing stories, editing copy, designing ads, writing headlines, and making layout designs. This course is recommended for students interested in related careers. This is a 0.5 credit course and is to be partnered with EJ4. Approval is needed by the Director of English for a school to schedule.	0.50	Y	VOC	
EW3	Writing Workshop II Part A	This course addresses the development and use of intermediate-level writing and language skills for creative expression in a variety of literary forms. Emphasis will be placed on the development of a personal writing style. Students will analyze literary models; discuss, read, and write about the impact of audience, purpose, and writing mode; employ writing process strategies; develop a personal writing style; engage in various creative writing experiences; use peer review techniques; and publish their final writing products. This is a 0.5 credit course and is to be partnered with EW4. Approval is needed by the Director of English for a school to schedule this course.	0.50	Y	VOC	

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EW4	Writing Workshop II Part B	This course addresses the development and use of intermediate-level writing and language skills for creative expression in a variety of literary forms. Emphasis will be placed on the development of a personal writing style. Students will analyze literary models; discuss, read, and write about the impact of audience, purpose, and writing mode; employ writing process strategies; develop a personal writing style; engage in various creative writing experiences; use peer review techniques; and publish their final writing products. This is a 0.5 credit course and is to be partnered with EW3. Approval is needed by the Director of English for a school to schedule this course.	0.50	Y	VOC	
GA1	Automotive Technology I	In this first course in the automotive technology program students get an overview of the eight major systems in the automobile. They begin their preparation and investigation into career opportunities using industry approved instructional materials and newly purchased tools and equipment. Students become familiar with diagnostic systems and repair processes and procedures and begin to develop troubleshooting skills. Safety and the safe use of laboratory/shop equipment is emphasized. Automotive brakes and suspension and steering will be a primary focus. Students will participate in SkillsUSA skill development activities and may participate in job shadowing experiences.	2.00	Y	VOC	
GA2	Automotive Technology II	This course continues with training in industry-identified major automotive systems. Students perform technical operations using digital diagnostic equipment, hand scanners, multi-meters and computerized information systems during laboratory services. Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering. Students are acquiring knowledge and skills in preparation for industry certification in service areas. Students participate in SkillsUSA skill development activities.	2.00	Y	VOC	
GA3	Automotive Technology III	Students acquire additional experience and skill competency in diagnosing, troubleshooting and repairing in industry identified automotive technology service areas. Emphasis is placed on problem solving issues related to technical enhancements in the automotive industry. Professional work-site skills are emphasized and practiced and students compose their employment portfolio, that includes an application for employment and/or postsecondary training. Eligible students may participate in an internship or other work-based learning experience. Students participate in SkillsUSA skill development activities.	2.00	Y	VOC	
GB2	Automotive Body Collision Repair II	Students continue to learn about auto body construction, service and repair through step-by-step instruction. Technical skill training is focused in areas such as disassembly, frame repair and alignment, welding, fiberglass and plastic repair, metal refinishing, painting and inspection. Shop tool maintenance, customer relations and estimating job costs are important aspects of the course. Students participate in SkillsUSA skill development activities.	2.00	Y	VOC	
GB3	Automotive Body Collision Repair III	This course provides an in depth continuation of knowledge and skill areas covered in Collision Repair I and II with an added emphasis on employer expectations relating to work habits and job attitude. Analyzing, estimating and documenting damage is practiced. Eligible students may participate in an internship or other work-based learning experience. Students will complete a professional type portfolio that will include a resume and application for employment and/or postsecondary training. Students participate in SkillsUSA skill development activities.	2.00	Y	VOC	
GB4	Automotive Body		1.00	Y	VOC	
GB5	Automotive Body		1.00	Y	VOC	
GM1	Introduction to Aviation	This course introduces students to a wide variety of career options in aviation. Exploratory in nature, it is designed to include many "hands-on" experiences as well as visits to aviation organizations and businesses as students learn about piloting, aircraft maintenance and repair, traffic control, airport operations, management and administration and aviation history.	0.50	Y	VOC	
GR1	Aviation Maintenance Technology	In this course, students will be introduced to airframe and mechanical operations and repair, including hydraulics, pneumatics, electronics, instrumentation, metals, composites fabrics and paints. Classes will often be off-site at the University of the District of Columbia (UDC) hangar located at Reagan National Airport and students may be eligible to earn dual credit.	1.00	Y	VOC	

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GT1	Transportation I	In this first course in the transportation program students identify and explore the terrestrial, marine, atmospheric and space modes of the transportation industry. Through classroom instruction and project-based learning students are introduced to planning, logistic and operations aspects of the industry. Hands-on projects provide simulations to technical, environmental, and safety factors within transportation systems.	0.50	Y	VOC	
GT2	Transportation II	Students will expand their knowledge of the transportation industry, including historical background, social implications and environmental, technical, financial, and safety factors. Students further investigate land based, marine, atmospheric, and space forms of transportation and real challenges faced by the industry. Particular focus is placed on the role of transit systems in urban areas, including planning and quality management principles. As available, Job Shadowing experiences will allow students to acquire first hand knowledge in areas of career related interest.	1.00	Y	VOC	
GT3	Transportation III	The major focus of this course is on highways and highway systems within the transportation industry. Technical, social, operational and management aspects of highways are introduced. Hands-on projects provide students with a variety of learning experiences through problem solving activities relevant to highway planning, design, safety and construction. Additionally, students will explore aspects of the Aviation & Aerospace industry, including historical, technical and career aspects.	1.00	Y	VOC	
GT4	Transportation IV	In this course students are introduced to the business and operations functions of logistics, planning and management as they relate to the control and physical distribution of materials, products and people. Areas such as logistic networking, inventory management, and coordinated supply management are studied. Through project-based learning, students create solutions for real-world challenges in the distribution of goods -- having them arrive where they should and when they should in the safest and most economical manner.	1.00	Y	VOC	
GT5	Transportation V	Using research and project planning, students will develop a senior project in a teacher approved transportation area of interest (e.g. global trade, improving traffic flow, futuristic travel, logistic solutions). Students complete a professional type portfolio, which includes a resume and application to postsecondary training or the workforce. With teacher approval, eligible students may participate in work-based learning experiences that connect, reinforce, and expand upon training and skills learned in the classroom.	0.50	Y	VOC	
GT6	Electro-Mechanical I	In this first course of a four-course sequence, students learn basic electrical concepts such as atom construction, electron transfer, and the relationship between current, voltage and resistance in electrical circuits. Theory is reinforced with practical application through hands-on projects and activities. Related academics are emphasized.	1.00	Y	VOC	
GT7	Electo-Mechanical II	Students build on the skills and knowledge learned in Electro-mechanical I as they explore the areas of magnetism, motors and current flow - alternating and direct. In-class projects include building electrostatic generators, simple magnetic induction motors, and ?Franklin Bells.? Also, students design and construct magnetic levitation vehicles.	1.00	Y	VOC	
GT8	Electro-Mechanical III	Primarily based in a lab setting, students expand their knowledge and refine their skills of circuit construction, wire diagramming and circuit components. Instruction and practice on diagnostic techniques and circuit malfunctions is emphasized. Additionally, there is an introduction to hydraulic and mechanical principles; friction and lubrication; chain, gear and belt drives; precision measuring, fluid hydraulics; and, gear types.	1.00	Y	VOC	

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GTA	Electro-Mechanical IV	In this course students are introduced to electronics. They learn electronic systems terminology, component operations and simple fault diagnosis. Additionally, in a lab environment, they learn binary theory, signal types and oscilloscope basics. Students will be able to articulate how electronic systems are planned and implemented within the transportation industry.	1.00	Y	VOC	
I99	Intro to ACE Careers		1.00	Y	VOC	
IA0	WORK BASED LEARNING-DESIGN	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
IA1	Architecture & Design 1	This course provides experiences that develop competencies and manipulative skills essential for developing construction drawings for residential/commercial structures. Through lecture-demonstrations, practical exercises and multi-media presentations, students learn to draw plans for foundations, wall sections, elevations, electrical and plumbing installations, roof structures, etc. Lessons emphasize theory and practical manipulative exercises. Students learn to express ideas and solutions to design problems graphically with pen and ink, pencil, and paper. Major emphasis is placed on manipulative skill development in the proper use of basic drafting instruments, metric and standard measurements, sketch, interpret blueprints, and basic drawings.	1.00	Y	VOC	
IA2	Architecture & Design 2	Provides students with instruction in the basic AutoCAD language used in industry and technology. Students examine computer aided drafting, types of computer-aided drafting equipment, and ways computer aided drafting is used. Class experiences include preparation of engineering drawing using varied methods, complete coverage of all drafting functions, and using different types of drafting equipment. Students explore graphical representations of major AutoCAD tasks in engineering, architecture, and other technologies related to drafting.	1.00	Y	VOC	
IA3	Architecture & Design 3	Students learn the graphic skills needed to design, present their ideas on paper, install and maintain the outdoor human living environment that result in the creation of a new physical outdoor environment. Basic knowledge and skills are developed in landscape design, landscape construction and landscape maintenance. Students learn the history of landscaping and are able to name, identify, select, care for and tools used for the landscaping trade.	1.00	Y	VOC	
IA4	Architecture & Design 4	Students develop, expand, and improve analytical and designing abilities learned in landscaping through the use the computer aided software LandCAD. Learning experiences are presented that require the development of creative solutions for a variety of landscape problems and real life projects.	1.00	Y	VOC	
IA9	SENIOR PROJECT-ARCHITECTURE & DESIGN	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
IC0	WORK BASED LEARNING-CARPENTRY	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
IC1	Carpentry I	Introduces students to the carpentry trade. Through shop assignments and projects, students learn to safely use basic carpentry hand and power tools, such as hammers, saws, chisels, electric drills, and power fastening devices. Related technical instruction develops competencies in reading and interpreting blueprints. Students also learn to plan, locate, layout, and square buildings.	1.00	Y	VOC	

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IC2	Carpentry II	Students will study floor systems including the framing basics as well as the procedures for laying out and construction of a wood floor. Wall, ceiling roof, as well as windows and doors will be studied in depth. Laboratory and real life projects provide students with the opportunities to safely apply and reinforce their newly developed skills.	1.00	Y	VOC	
IC3	Carpentry III	Develops skills that are useful in house construction and home renovation projects. Students will study concrete to include finishing, curing, and protecting. Laboratory and real-life projects provide students with opportunities to safely apply and reinforce their newly developed skills. Lastly, trainees are exposed to related technical knowledge that conditions their manipulative skills.	1.00	Y	VOC	
IC4	Carpentry IV	Students will continue their study of concrete, learning the physical and chemical properties of various materials used in a concrete mix. They will learn to estimate concrete quantities used in curbs, stairs, sidewalks, etc. Highlights safety requirements with emphasis on restoring precautions and procedures.	1.00	Y	VOC	
IC5	Exploring Construction Careers	Currently for Construction Design Academy only. This course gives students the opportunity to explore the various trades and jobs in the construction field. Students will receive an industry overview, information about what to expect on the job, and specific career opportunities.	1.00	Y	VOC	
IC9	SENIOR PROJECT-CARPENTRY	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
IE0	WORK BASED LEARNING-ELECTRICITY	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
IE1	Electricity I	Focuses on the basic principles of electricity, electronics, shop mathematics, and related science. via sequential learning experiences, students develop competencies in the safe use and care of electrician's tools, equipment, and materials. Students are introduced to electrical measuring devices and determine electrical measurements using Ohm's Law.	1.00	Y	VOC	
IE2	Electricity II	Emphasizes the theoretical and manipulative aspects of the trade. Students explain and construct simple circuits using various wire and wiring devices. Other projects require the reading and interpreting of electrical wiring plans. Students apply acquired knowledge and manipulative skills by wiring systems, such as service entrances and branch circuits. Students identify and explain the various types of devices and their functions. Shop safety principles are emphasized.	1.00	Y	VOC	
IE3	Electricity III	Students will study the application of Ohm's law to AC circuits. Motors, theory and application section will include main parts, circuits and connections. Students will learn the safety procedures involved in grounding. Conduit bending topics will cover all sizes of conduit up to six inches.	1.00	Y	VOC	
IE4	Electricity IV	Emphasis in this course is placed on installation of electric services including techniques for both single and three phase. Circuit breakers, fuses, contactors and relays are some of the other topics students will study. Through lab work and real life experience students will apply the skills acquired in the Electricity major.	1.00	Y	VOC	
IE9	SENIOR PROJECT-ELECTRICITY	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	

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IH0	WORK BASED LEARNING-HVACR	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
IH1	HEATING, VENTILATION, AC AND REFRIGERATION I	Provides learning experiences in the air conditioning, heating, and refrigeration trade. Through classroom lectures, demonstrations, and hands-on experiences, students learn the operating characteristics of climate control systems, including condensers, compressors, evaporators, and refrigerants. Blueprint reading, safety procedures, and the use of technical reference materials are introduced and emphasized.	1.00	Y	VOC	
IH2	HEATING, VENTILATION, AC AND REFRIGERATION II	This course is a continuation of HVACR I. Students will continue to study topics in cooling, heating, and basic electricity. Students will learn about the basic principles of heat transfer, refrigeration, and pressure temperature relationships.	1.00	Y	VOC	
IH3	HEATING, VENTILATION, AC AND REGRIGERATION III	Students will learn about air distribution systems, their components and the use of instruments for measuring temperature, humidity, pressure and velocity. Maintenance skills for the service technician will be taught in this course and will include job documentation and customer relations.	1.00	Y	VOC	
IH4	HEATING, VENTILATION, AC AND REFRIGERATION IV	Basic electronics, electric heating, control troubleshooting, metering devices, heat pumps and compressors will be the major topics presented in this course. Students will also learn about servicing HVACR systems in a manner than is safe for the environment.	1.00	Y	VOC	
IH9	SENIOR PROJECT-HVACR	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
IP0	WORK BASED LEARNING-PLUMBING	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
IP1	PLUMBING I	Introduces students to the plumbing profession and provides them with basic information on the types and places of employment, training requirements, qualifications, advancement opportunities, wages, and descriptions of working conditions. Students learn general and specific safety practices related to the plumbing trade. Use, care, and maintenance of hand and power tools used by plumbers are developed in classroom/laboratory settings and through actual on-the-job work experiences.	1.00	Y	VOC	
IP2	PLUMBING II	Stresses the development of basic competencies in blueprint reading, sketching, drafting, applied mathematics, physics, and chemistry. Trainees are introduced to local plumbing codes and regulations. Students are exposed to the wide array of tools and materials used in the trade and attain a level of competency where they can name, identify, and distinguish among them. Basic skills in cutting, threading, bending, soldering, welding, fitting, installing, and supporting pipe are developed. Exposure to principles and procedures of layout assembly is provided.	1.00	Y	VOC	
IP3	PLUMBING III	Students will learn how to interpret a variety of drawings in order to install plumbing systems. Installing and testing the water supply, piping, installing roof, floor and area drains are just some of the topics covered.	1.00	Y	VOC	

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IP4	PLUMBING IV	Students will learn to install and service fixtures, valves and faucets. They will also be introduced to fuel gas systems, safety and testing. Laboratory and real life projects provide students with opportunities to safely apply and reinforce their newly developed skills.	1.00	Y	VOC	
IP9	SENIOR PROJECT-PLUMBING	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
JL0	WORK BASED LEARNING-LAW ENFORCEMENT	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
JL1	INTRODUCTION TO LAW, PUBLIC SAFETY AND SEC.-LAW	Students will be engaged in planning a city as they examine the vast array of services needed, as well as the nature of decision-making and executive action, in a democratic society. This and other real-world projects and activities will provide students direct exploration to the key roles played by organizations and personnel in the fields of Law, Public Safety, and Security. Specific topics of discussion may include the role of public and private security and law enforcement agencies in response to domestic and international terrorism and the establishment of the Department of Homeland Security.	0.50	Y	VOC	
JL2	CONSTITUTIONAL LAW FOR LAW, PUBLIC SAFETY AND SEC.	Students investigate the history and foundations of constitutional law with specific focus on elements of citizens' rights and responsibilities within the American judicial system. Direct connections to the establishment and changing role and responsibilities of law enforcement and protective and security services personnel are examined in light of the evolution of federal and state laws and statutes, such as civil rights, due process, equal protection, criminal law, and homeland security. Students will be exposed to the differences between civil and criminal law and will learn about the rights, responsibilities, and restrictions that attach to law enforcement and to security and protective services personnel in the performance of their duties.	0.50	Y	VOC	
JL3	STREET LAW FOR LAW, PUB SAFETY AND SECURITY-LAW	Through participatory learner-centered activities, students learn about practical law that affects one's everyday life, fundamental laws, constitutional principles, and legal processes that establish the foundation of our democracy. Students explore and discuss the values and policies on which these laws are based. The classroom becomes a model of due process, diversity of ideas, and democratic learning. Trial procedures, interviewing techniques, proper case preparation and courtroom demeanor are introduced and practiced. Investigative rules for criminal and non-criminal court cases are discussed. Other elements of this course include: the judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication processes; types and rules of evidence; and sentencing. As a culminating activity, students prepare for and participate in a mock trial.	0.50	Y	VOC	
JL4	Law Enforcement I	Students will examine the historical beginnings of law enforcement officers (LEOs) and compare their current role to that of the early decades of the 20th century. Students identify the personal and professional attributes required of LEOs, explore the various aspects of law enforcement careers and opportunities and learn about the function and application of tools, equipment, technologies and materials used in law enforcement. Both collection and preservation of evidence will be introduced.	1.00	Y	VOC	
JL5	Law Enforcement II	In this course, students further explore the legal aspects of law enforcement, including arrest, search and seizure, and defensive tactics. They learn and demonstrate basic investigative procedures in areas such as crime scenes, domestic and community violence, traffic accidents, crowd control, and demonstrations. The filling out of formal reports and documents, by hand and by computer, will be practiced. First responder skills such as proper safety and medical precautions and procedures in emergency situations are learned and practiced. Basic Red Cross CPR and First-Aid skills are acquired.	1.00	Y	VOC	

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JL6	Law Enforcement III	Students receive additional training and practice needed for being a candidate for employment and post secondary training in modern day law enforcement and related fields. Students enhance their communication, leadership, and human relations skills as well as increase their knowledge and understanding regarding public and private law enforcement organizations. For students meeting the eligibility requirements, this will primarily occur in an internship or other work-based learning setting. Additional learning in this course may include: patrol procedures; defensive tactics; rules of evidence; traditional, electronic and forensic research techniques; criminal investigation; further practice in preparation of reports and documents; court testimony; and technical writing. Students will complete and formally present a career-focused portfolio. A research and product-based senior project will be completed by students not participating in work-based learning.	0.50	Y	VOC	
JL9	SENIOR PROJECT-LAW ENFORCEMENT	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
JP0	WORK BASED LEARNING-PROTECTIVE SERVICES	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
JP1	INTRODUCTION TO LAW, PUBLIC SAFETY AND SECURITY-PS	Students will be engaged in planning a city as they examine the vast array of services needed, as well as the nature of decision-making and executive action, in a democratic society. This and other real-world projects and activities will provide students direct exploration to the key roles played by organizations and personnel in the fields of Law, Public Safety and Security. Specific topics of discussion may include the role of public and private security and law enforcement agencies in response to domestic and international terrorism and the establishment of the Department of Homeland Security.	0.50	Y	VOC	
JP2	CONSTITUTIONAL LAW FOR LAW PUBLIC SAFETY AND SEC.	Students investigate the history and foundations of constitutional law with specific focus on elements of citizens rights and responsibilities within the American judicial system. Direct connections to the establishment and changing role and responsibilities of law enforcement and protective and security services personnel are examined in light of the evolution of federal and state laws and statutes, such as civil rights, due process, equal protection, criminal law, and homeland security. Students will be exposed to the differences between civil and criminal law and will learn about the rights, responsibilities, and restrictions that attach to law enforcement and to security and protective services personnel in the performance of their duties.	0.50	Y	VOC	
JP3	STREET LAW FOR LAW, PUBLIC SAFETY AND SECURITY-PS	Through participatory learner-centered activities, students learn about practical law that affects one's every day life, fundamental laws, constitutional principles, and legal processes that establish the foundation of our democracy. Students explore and discuss the values and policies on which these laws are based. The classroom becomes a model of due process, diversity of ideas, and democratic learning. Trial Procedures, interviewing techniques, proper case preparation and courtroom demeanor are introduced and practiced. Investigative rules for criminal and non criminal court cases are discussed. Other elements of this course include: the judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication processes; types and rules of evidence; and sentencing. As a culminating activity, students prepare for and participate in a mock trial.	0.50	Y	VOC	

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JP4	Protective & Security Services I	This course begins with the history and philosophy of public and private security systems. Students gain an overview of security systems, agencies, and practices, as well as the scope of roles and responsibilities of security and protective services personnel in the United States and the Greater Washington Metropolitan area. Students explore various aspects of protective and security services and professionals including: regulations, alert systems; career opportunities; ethical and character issues; and first responder skills that include proper safety, security and medical precautions. Basic Red Cross CPR and First-Aid skills may be acquired.	1.00	Y	VOC	
JP5	Protective & Security Services II	Students expand their knowledge and understanding regarding public safety and security systems and the related roles and responsibilities of security officers and security specialists (SO&SS). Students learn about and have practice with investigative rules of involvement, basic understanding of security systems, traditional and electronic surveillance techniques, various approaches to basic crime prevention and security services, and both the supportive and liaison relationships to other agencies. Additionally, students may address such issues as: public safety research; public & community relations; homeland security and terrorism as they relate to the duties of SO&SS; understanding of basic incident response procedures; preparation of reports and documents; and technical writing.	1.00	Y	VOC	
JP6	Protective & Security Services III	This course provides students with advanced understanding and application related to protective and security procedures and issues. Topics may include: identifying and protecting sensitive information; understanding threats and learning security measures to reduce threats to information technology systems; suspect identification and surveillance; crisis intervention; and the use of chemical agents. Students review the professional characteristics and enhance their skills for becoming professionals in the modern safety, protective services and security fields. Students meeting eligibility requirements may participate in an internship or other work-based learning experience related to Investigation and Security Management or Security and Protective Services. A research and product-based senior project will be completed by students not participating in work-based learning. All students complete and present a career-focused portfolio.	0.50	Y	VOC	
JP9	SENIOR PROJECT-PS	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
K35	Shoe & Leatherwork Repair I	SHOE & LEATHERWORK REPAIR I: Enables students to develop and apply manipulative skills essential to the repair and maintenance of shoes and other leather goods. Requires the naming, selecting, maintaining, and utilizing of tools, materials, and machines used in the shoe repair trade. Shop safety and proper attitudes toward work are emphasized.	1.00	Y	VOC	
K36	Shoe & Leatherwork Repair II	SHOE & LEATHERWORK REPAIR II: Provides experiences in the use of hammers, awls, nippers, cutters and power tools. Students sharpen their manipulative skills by repairing a variety of consumer goods, made of leather, rubber, canvas, plastic or composition materials.	1.00	Y	VOC	
KB2	Barbering II	Students expand their knowledge of the principles and procedures of barbering. They develop skills in the techniques of mustache and beard design, hairstyling, shaving, and hair coloring. Basic chemistry, anatomy and physiology, and treatment of hair and scalp are emphasized. Students also learn techniques and procedures for permanent waving, chemical hair relaxing, and soft curl permanents.	2.00	Y	VOC	
KB3	Barbering III	Students continue to refine their skills in all areas of barbering. They focus on preparation for taking the DC Barbering Licensing Board Exam. Additional learning and experience are provided for job search techniques and composing an employment portfolio.	2.00	Y	VOC	
KB4	Barbering I	Barbering I is a year-long introductory course. This first-semester course (KB4) may be taken by students wishing to explore the barbering career path or by students intending to enroll in the entire three-year sequence of courses. Barbering I provides students with the basic theoretical and practical procedures of barbering. Areas of exploration and learning include: the history of barbering; professional image and ethics; scalp and hair structure; bacteriology, sterilization and sanitation; tools, equipment and safety; disorders and treatments of hair and skin; massage and facial treatments; haircutting.	1.00	Y	VOC	

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KB5	Barbering I	Barbering I is a year-long introductory course. This second semester course (KB) is to be taken by students intending to continue in the barbering sequence of courses. Barbering I provides students with the basic theoretical and practical procedures of barbering. Areas of exploration and learning include: the history of barbering; professional image and ethics; scalp and hair structure; bacteriology, sterilization and sanitation; tools, equipment and safety; disorders and treatments of hair and skin; massage and facial treatments; haircutting.	1.00	Y	VOC	
KC2	Cosmetology II	Students continue to strengthen their knowledge of the principles and procedures of cosmetology. They learn about cosmetic chemistry and further develop skills in the techniques of hair design, cutting, shampooing, rinsing and conditioning. Skin care -- including facials, make up and hair removal -- is emphasized. Students will acquire knowledge related to wigs and hair enhancements.	2.00	Y	VOC	
KC3	Cosmetology III	In this course students review all theory and application covered in Cosmetology I & II as they prepare for the DC Cosmetology Licensing Board Exam. Students develop knowledge of the anatomical areas and physiological functions of the human body. Knowledge of chemical and electrical, hair coloring, and permanent weaving procedures are expanded. Salon business, employment seeking, and job success skills are emphasized.	2.00	Y	VOC	
KC4	Cosmetology I	Cosmetology I is a year-long introductory course. This first semester course (KC4) may be taken by students wishing to explore the cosmetology career path or by students intending to enroll in the entire three-year sequence of courses. In this course students are introduced to the history of cosmetology and explore the opportunities for related careers. Students learn about the characteristics of hair, product selection, and basic elements that determine hair growth, health and appearance. Principles and practices of sanitation and infection control are introduced. Through classroom instruction and hands-on application, students learn techniques in hair styling and braiding as well as manicuring and pedicure. This course also promotes the development of a professional image through appearance, poise, human relations, punctuality, dependability, and business ethics.	1.00	Y	VOC	
KC5	Cosmetology I	Cosmetology I is a year-long introductory course. This second semester course (KC5) may be taken by students wishing to explore the cosmetology career path or by students intending to enroll in the entire three-year sequence of courses. In this course students are introduced to the history of cosmetology and explore the opportunities for related careers. Students learn about the characteristics of hair, product selection, and basic elements that determine hair growth, health and appearance. Principles and practices of sanitation and infection control are introduced. Through classroom instruction and hands-on application, students learn techniques in hair styling and braiding as well as manicuring and pedicure. This course also promotes the development of a professional image through appearance, poise, human relations, punctuality, dependability, and business ethics.	1.00	Y	VOC	
KE1	Early Childhood Development & Education 1	This course examines the growth and development of children and the influence of development on effective child care and early education. Content emphasizes social, emotional, cognitive, and physical development and the application of theories of child development to early care and education.	1.00	Y	VOC	
KE2	Early Childhood Development & Education 2	This course is designed for students who may be interested in working with young children as care givers or teachers in child development centers, day care homes, kindergartens, Head Start, pre-school or school-age care programs. Coursework is aligned with the national Child Development Associate (CDA) Credential Competencies and Functional Areas endorsed by the Council for Professional Recognition.	1.00	Y	VOC	
OC0	Health Careers Exploration	Provides students with a core knowledge and skills common to all health occupations. It also provides introduction to all facets of health care, allied health fields, health care facilities, and members of the health professions team. Students gain insight through field trips, resource personnel, portfolios and projects, interviewing, job shadowing and mentoring. Topics of discussion include, health occupations, establishing the basis for wellness; ethics in health care, universal precautions (protection from diseases); health issues (medical care access and coverage, delivery systems, financing) and some medical terminology.	1.00	Y	VOC	

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OC1	Clinical Experience in Nursing	This course is designed to give students supervised, practical application of previously studied theory in their specialized field of study. The clinical will be performed in a health facility and conducted under the supervision of a health professional. The student will be monitored by the academy coordinator.	1.00	Y	VOC	
OC2	Clinical Experience in Dental	This course is designed to give students supervised, practical application of previously studied theory in their specialized field of study. The clinical will be performed in a health facility and conducted under the supervision of a health professional. The student will be monitored by the academy coordinator.	1.00	Y	VOC	
OC3	Clinical Experience in Emergency Medical Services	This course is designed to give students supervised, practical application of previously studied theory in their specialized field of study. The clinical will be performed in a health facility and conducted under the supervision of a health professional. The student will be monitored by the academy coordinator.	1.00	Y	VOC	
OC4	Introduction to Medical Terminology	Focuses on the use of complex medical terminology and the development of word analysis skills through lectures by medical professionals, reading medical journals, and searching the National Library of Medicine Medline Plus website to prepare for entry into medical professions.	1.00	Y	VOC	
OD1	Dental Assistant	This course trains students in basic dental anatomy and physiology, tooth morphology, dental materials, material handling, dental instruments and their care, dental office procedures, chairside assisting, and infection control procedures according to the Occupational Safety and Health Association regulations.	1.00	Y	VOC	
OE1	Emergency Medical Services	This course is designed to develop the competencies students need to become nationally certified Emergency Medical Technicians. Students learn principles of patient assessment, fundamentals of emergency medical services communication, operations, and emergency medical care as well as trauma care. This course also provides a foundation for more advanced training and certification that may be acquired through postsecondary education.	1.00	Y	VOC	
OH1	Health Sciences I	Students will acquire the knowledge and skills required to provide basic health care to clients/patients with a variety of health care needs. Topics to be addressed include the role of healthcare in the economy, the personal qualities necessary in a health care worker, problem-solving and adapting to change in the workplace, ethical and legal conduct, medical terminology, safety measures, and safe patient-centered care.	1.00	Y	VOC	
OH2	Health Sciences II	In this course students acquire basic knowledge of human anatomy and physiology, rehabilitation services, emergency care, electrocardiography, laboratory assistant skills, medical office skills, and clinical skills.	1.00	Y	VOC	
ON1	Nursing Assistant	This course trains students in the basic principles of nursing, including the role of the certified nurse assistant on a health care team. Students extend their knowledge of human anatomy and physiology, medical terminology, cardiac pulmonary resuscitation, nutrition and diet therapy, topography, legal and safety requirements, equipment use, and basic patient care skills.	1.00	Y	VOC	
P58	Ballet Level III & Point II, Level III	Continues the former exercises of Level II in an increased number, stressing the development of strength in the legs and feet through exercises on half-toe on points. This period of study also involves increasing and maintaining stability in various turns, allegro (petit and grand), and grand adagio. The synthesis and coordination of movements between the arms and body are also stressed.	1.00	Y	VOC	
P61	Modern Dance I	Provides instruction in fundamental modern dance techniques, locomotor, sustained and percussion body movements based on a time-space relationship. Concepts of muscle groups for appropriate body alignment and execution of basic ballet for body conditioning and dances and movement foundation are explored. Students research and discuss dance as an aesthetic art form. Students will create and perform dance improvisation or compositions of knowledge and skill appropriate to their level.	1.00	Y	VOC	
P62	Modern Dance II	Presents a program of intermediate dance skills appropriate for the acquisition of a vocabulary of body movements. Dance form elements include: sound, line, pattern, form, space, shape, rhythm, time and creative choreography. Students study and review selected dance artists' movement styles and describe muscle conditions, care and prevention of dance injuries. Experiences in staging and performance dance are provided. NOTE: With approval of instructors, students may be exempted from Modern Dance I. Level of dance proficiency and performance must be demonstrated.	1.00	Y	VOC	

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P63	Modern Dance III	This course is the advanced level of modern dance based on the Horton Technique. This technique is an intensive approach toward specific movement skills designed by Lester Horton to fortify, stretch, lengthen and reshape the body while enhancing concentration, competency of placement and dynamics. In addition, basic fundamentals of the Graham Technique will be introduced and implemented to assist the growth and development of an accomplished dancer. Daily participation in all class work including; reading and writing assignments/examinations, physical examinations, teaching skills, choreographic principles/process, attendance in master classes/workshops with other instructors/choreographers, attendance of selected performances and open discussions of self expressed opinions, ideas and concepts on dance as an art form. Through this approach, students will be able to apply an emotional and social consciousness to their lives as dancers and as human beings.	1.00	Y	VOC	
P93	Ballet IV Pointe III Level IV	This course continues the former exercises of Level III in an increased number, stressing the development of strength in the legs and feet through exercises on half-toe on points. This period of study also involves increasing and maintaining stability in various turns, allegro (petit and grand), and grand adagio. The synthesis and coordination of movements between the arms and body are also stressed. An integral part of the course is performance and production. Emphasis will be placed the teaching of dance composition, staging costuming, and dance performance and rehearsal standards. Consistent attendance, punctuality, proper work ethic, respect for others, and professionalism are major components of the instructional design. Students are introduced to the audition process.	1.00	Y	VOC	
P94	Senior Dance Project	The class is designed for all senior dance students and meets three times per week for one full school year. This course is a Dance department course requirement. The course uses a non-directive teaching model to foster individual and group experiences in planning, acquiring responsibility for learning the skill to plan, developing and implementing the tasks/assignments at hand. The purpose of this non-directive teaching model is to establish interpersonal relationships that can facilitate personal/group productivity. This class also serves the goal of exposing dance students to alternative careers in the area of dance. The students will mount a display, visit a dance studio, and have hands on exposure to theatre operations. Selected students experience the completion of the ARTS application process.	0.50	Y	VOC	
Q57	Introduction to Audio Technology	INTRODUCTION TO AUDIO TECHNOLOGY:	0.50	Y	VOC	
Q58	Introduction to Live Audio Mixing	Needs to be developed.	0.50	Y	VOC	
Q59	Introduction to MIDI Technology	Needs to be developed.	1.00	Y	VOC	
Q60	Introduction to Radio Broadcasting	Introduces students to the field of Radio Broadcasting. At an introductory level, this course covers the creation, development and presentation of audio programming elements. Upon completion, students should be able to correctly operate audio recording, editing and playback equipment and demonstrate an understanding of the basic components of sound.	0.50	Y	VOC	
Q61	TV/News Production	Prepares students for careers in broadcast news by reinforcing research, interviewing, and news writing skills in the context of experience as a reporter. The students write short feature news pieces, create short and long documentaries, attend and conduct press conferences, and cover breaking and ongoing news events. The students improve their skills with video cameras, recorders, and editors. Students also gain experience through field trips to broadcast stations and conferences with professionals and personnel directors. A unit in college selection and application is offered as a supplement to counseling activities. Finally, the students learn to operate studio equipment and produce complete news and public affairs shows.	1.00	Y	VOC	

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Q62	TV/Radio Production I	Prepares students for careers in broadcasting and related fields. Must be taken with the course in TV/Radio Writing (Q77). The students learn the operation of video and audio equipment. In the process, they produce--in audio or video format--the scripts written in the writing class. In addition, they learn the basics of how TV and radio work, and how the broadcast spectrum is regulated. The students also gain experience through field trips and conferences with professionals.	1.00	Y	VOC	
Q64	Newspaper Production		1.00	Y	VOC	
Q65	Photojournalism I	Acquaints students with the principles of photography for newspapers and magazines. The student photojournalist works with student reporters on articles relevant to school and community issues. The articles and photographs are then published in the school newspaper. Another end product of the course is a portfolio of mounted photographs to facilitate entry into schools or employment.	1.00	Y	VOC	
Q66	Photojournalism II	Provides senior students with an opportunity to refine skills introduced in Photojournalism I. Students specialize in magazine, feature, news, photography, and photo essay production in preparation for college or work. Students are required to present a portfolio representative of two years of work.	1.00	Y	VOC	
Q85	Digital Recording and Editing	Description to be developed.	0.50	Y	VOC	
Q86	Web Streaming Audio		0.50	Y	VOC	
QA9	Senior Project-Acting 1		0.50	Y	VOC	
QAA	Senior Project-Acting 2		0.50	Y	VOC	
QD9	Senior Project-Dance 1		0.50	Y	VOC	
QDA	Senior Project-Dance 2		0.50	Y	VOC	
QG0	WORK BASED LEARNING-GRAPHIC DESIGN	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
QG1	TWO-DIMENSIONAL CONCEPTS-GRAPHIC DESIGN	This foundations course is for students who have creative and artistic interest and ability and want to explore and pursue training in the fields of graphic imaging and design or visual arts. In this course, students will explore and investigate a variety of rendering techniques, materials, and concepts involved in two-dimensional application.	0.50	Y	VOC	
QG2	Graphic Design I	Students are introduced to the basics of graphic communications and explore the processes and requirements of the graphic imaging and design industry. As they learn step-by-step operations in creating and completing electronic design and production projects, students become familiar with a variety of industry appropriate software. Areas of learning through project development include: incorporating principles of design theory; use of peripherals; digital imaging and illustration; producing dynamic visual effects drawings and designs with vector and raster-based software; photo retouching and manipulation, and enhanced digital drawings. Additionally, students will be introduced to web development, HTML coding, and dynamic web building with current software.	1.00	Y	VOC	
QG3	Graphic Design II	In this course students expand upon their electronic design and production skills learned in the previous course. Students will build animation and motion graphic projects that include both audio and video components.	1.00	Y	VOC	

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QG4	Graphic Design III	Students continue to develop their imaging and graphic skills through commercial quality assignments and may begin to specialize in particular areas of interest. Students develop new creative skills using 3D animation and modeling, and apply professional level multimedia techniques. Students expand their knowledge of Internet communications and advanced design for the web. Student developed products become a part of the student portfolio being prepared for professional review.	1.00	Y	VOC	
QG5	Graphic Design IV	In this advanced course, students finalize a personal web portfolio for review and feedback and may create a fully animated senior project. Students are afforded assessment opportunities for certification and articulation credit. For eligible students, an internship or other approved work-based learning experience in an industry-based setting will supplement and expand classroom instruction.	0.50	Y	VOC	
QG9	SENIOR PROJECT-GRAPHIC DESIGN	The Senior Project course is a challenging student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
QI9	Senior Project-Instrumental Music 1		0.50	Y	VOC	
QIA	Senior Project-Instrumental Music 2		0.50	Y	VOC	
QL9	Senior Project-Literary Studies 1		0.50	Y	VOC	
QLA	Senior Project Literary Studies 2		0.50	Y	VOC	
QM0	Work Based Learning-Mass Media and Communications	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
QM1	Mass Media & Communication 1	This introduction course gives students an overview of industry fundamentals in both the communication and technical aspects of television and video production, radio broadcasting and print media. A brief review of broadcast history provides an awareness of the visual media's influence in our lives. Through classroom instruction and hands-on experiences students become familiar with mass media and communications terminology and are introduced to basic studio and field audio, visual and print equipment and operations. Students work individually and in teams to enhance their communication skills in voice, diction and writing. The variety of roles for pre-production planning, scriptwriting, filming, recording, writing, editing and other post-production work are introduced.	1.00	Y	VOC	
QM2	Mass Media & Communication 2	Building on students' learning in Mass Media and Communications 1, the purpose of this course is to enable students to develop basic skills in mass media production. Through classroom and field instruction that include applied experiences, students gain a broader understanding of the communication skills and the technology and equipment aspects of the industry. Students are introduced to storyboarding and further develop their writing, voice and diction skills. Working individually and in teams, students gain considerable experiences in videotaping, audio recording, writing, editing and broadcasting. Students learn and use criteria for judging the merits of a viewed program.	1.00	Y	VOC	

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QM3	Mass Media & Communication 3	This course expands on Mass Media and Communications 2. Students learn how to operate all the video and audio hardware in the studio and how to work effectively as a team. Students experiment in different production positions so as to learn the expectations of each job for the production team. The roles include writing and storyboarding, operation of studio and field sound/video equipment, graphics, writing and editing techniques, and direction and production of broadcast projects. Students will explore business aspects and opportunities within the industry and have the opportunity to observe and job shadow professionals.	1.00	Y	VOC	
QM4	Mass Media & Communication 4	Students develop advanced skills in mass media and communication production and synthesize these skills of writing, planning, editing, directing, and producing programs. Students gain experience in studio production regarding the selection and quality of production topics, use of appropriate equipment, and adherence to deadlines as well as finding solutions to unexpected challenges that arise in a production situation. Critical analysis of mass media productions is emphasized. Additionally, students identify and begin working on their Senior Project. Individual responsibility and commitment are very strongly emphasized.	1.00	Y	VOC	
QM9	Senior Project- Mass Media & Communicaitons	Students gain independence in planning, writing, producing and performing in high quality mass media productions. Students complete a Senior Project and prepare their Portfolio for presentation. Eligible students will have an opportunity to intern with industry professionals or participate in other work-based learning experience.	0.50	Y	VOC	
QP0	Work Based Learning for Digital Printing	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	1.00	Y	VOC	
QP1	Digital Printing 1	This course is for students who attend Luke C. Moore Academy. Digital Printing 1 provides instruction in Job Application Skills, Introduction to Binding and Finishing, and Introduction to Digital File Preparation and Output. This course introduces students to job opportunities in the printing industry and the basic concepts and skills necessary to be employed in an entry-level graphic communications occupation.	1.00	Y	VOC	
QP2	Digital Printing 2	This course provides students with the required skills necessary to enter into the rapidly growing field of Digital Production Printing. The students will be exposed to Internet Web Submission communication concepts incorporating personalized/targeted marketing messages in addition to related skills/competencies, leading to the student becoming a Digital Production Printing Craftsman.	1.00	Y	VOC	
QP3	Digital Printing 3	This course is for students who attend Luke C. Moore Academy. Digital Printing 3 expands upon Digital Printing 2 (Pre-Req) and provides continuing instruction in Job Application Skills, Introduction to Binding and Finishing, and Introduction to Digital File Preparation and Output. This course introduces students to job opportunities in the printing industry and the basic concepts and skills necessary to be employed in an entry-level graphic communications occupation.	1.00	Y	VOC	
QP4	Digital Printing 4	This course is for students who attend Luke C. Moore Academy. Digital Printing 4 is the final course in the Digital Printing sequence. The course provides the final level in career instruction in Job Application Skills, Introduction to Binding and Finishing, and Introduction to Digital File Preparation and Output. This course introduces students to job opportunities in the printing industry and the basic concepts and skills necessary to be employed in an entry-level graphic communications occupation.	1.00	Y	VOC	
QP9	Senior Project for Digital Printing	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
QR0	WORK BASED LEARNING-RADIO BROADCASTING	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	

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QR1	Radio Broadcasting I	Students will learn terminology related to radio broadcasting and practice the basic techniques of radio reporting, writing and on-air production. In this introduction to the variety of careers available in the radio broadcast industry, students will operate of audio engineering equipment, writing for the ear, and capturing sound. Students will produce short selections, public service announcements, news spots and newscasts. In addition to a brief introduction to the history of radio through a study of classic examples of early radio broadcasts, students will learn the fundamentals of scholastic press law, industry codes of ethics and copyright regulations.	1.00	Y	VOC	
QR2	Radio Broadcasting II	Students will learn to work as a broadcast team as well as master the individual skills of producing a piece in a radio studio. Students will learn about air-personality basics, interviewing, current issues in broadcasting, pitching a story, doing research, and logging radio interviews. They will continue to produce newscasts and short selections. Federal Communications Commission rules will be introduced.	1.00	Y	VOC	
QR3	Radio Broadcasting III	Students will learn to operate equipment with greater technical challenges in the field and studio. They will further develop their speaking, writing and thinking skills with emphasis on descriptive, narrative, and scene building techniques. They will begin the process of developing longer radio pieces. Students will explore business aspects and opportunities within the industry and have the opportunity to observe and shadow professionals in radio broadcast.	1.00	Y	VOC	
QR4	Radio Broadcasting IV	This course is hands-on with greater responsibility for personal projects and working as a team. The emphasis on this level will be on thoroughness, originality and precision in productions. Eligible students will have an opportunity to intern with professionals or participate in other work-based learning experiences in radio broadcasting. As a senior project, students will write a script and produce a 15-to-30 minute program, one worthy of being aired on radio.	1.00	Y	VOC	
QR9	SENIOR PROJECT-RADIO BROADCASTING	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
QS9	Senior Project-Visual Arts 1		0.50	Y	VOC	
QSA	Senior Project-Visual Arts 2		0.50	Y	VOC	
QT0	WORK BASED LEARNING-TECHNICAL THEATER	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
QT1	Stagecraft I	In this first course in technical theatre, students are introduced to the process by which scenery, lighting, properties and audio are planned, coordinated, and built to support the playwright's and director's visions and concepts. Students learn basic techniques in such areas as planning for and constructing scenery and properties, finish painting, and stage management. Students create a scenic design scale model based on play analysis and research.	0.50	Y	VOC	
QT2	Stagecraft II	Students expand their technical theatre vernacular in reference to the technical facility, equipment, materials and personnel. Theatrical sound and lighting are introduced and students obtain hands-on experiences with traditional and modern equipment, tools and paraphernalia. Students can expect to acquire a general understanding of basic stagecraft and practices.	0.50	Y	VOC	
QT3	Lighting Technology	The significant role of lighting and related technology in theatrical production is explored in this course. Students learn to read lighting plots to hang a show, acquire basic skills in electrical wiring and troubleshooting, and learn to program a semi-manual and computerized lighting board. Students experience the role of a theatrical electrician.	0.50	Y	VOC	

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QT4	Scenic Technology	In this course students study stage rigging and machinery as well as advanced carpentry, painting and safety techniques used in theatrical productions. Students study blueprints for technical interpretation and for making technical cost estimates. Practical hands-on projects enhance knowledge and skill related to sceneography and students learn and practice the duties of a theatrical carpenter.	0.50	Y	VOC	
QT5	Scenic Design I	In this course students are introduced to and practice basic skills required of a scenic designer. Skills include using drafting tools for design and construction purposes and using the Internet to research historic periods for accurate play design and to obtain background and reference materials for production design. Students learn how to analyze a play for production design.	1.00	Y	VOC	
QT6	Scenic Design II	Students view scenic design in relationship to all other areas of theatre production. Through project focused activities, students learn how to gather and use research in choosing a valid scenic design and in determining how scenic design effects all other design elements. In this course, students create working drawings for a scenic design, and construct and paint a scale model.	1.00	Y	VOC	
QT7	Audio Visual Technology	In this course students are introduced to the vernacular and equipment of sound and video engineering. Students explore tasks and operational procedures in numerous aspects leading to production. Students learn to make mic selections and set-up options, set-up and run a multi input and output soundboard and outboard gear, and run a video shoot and slide presentation.	0.50	Y	VOC	
QT8	Lighting Design I	In studying lighting design for the theatre, students begin by reviewing related technology and equipment. Students explore and learn specific roles and skills of the lighting director, including: identifying best angles for equipment placement; choosing color patterns for production; and producing scale plots, paperwork, and color selections to be used to hang the design.	1.00	Y	VOC	
QT9	Lighting Design II	In this course, students learn how to produce a complete lighting design for different types of shows. Areas of exploration and skill development include: how to use and program state of the art lighting fixtures and controllers; how to produce a functional design on a budget, and how to evoke emotion through lighting. Taking a script and the directors' vision and working with limitations of the facility, budget, and schedule, students will experience the role of a lighting designer in producing moods and feelings that complement the various parts of a production.	1.00	Y	VOC	
QTA	Costume Technology	In this course students learn about stage costuming and experience the role of a theatrical costumer. Student learning includes how to use the tools of basic costume construction and maintenance, how to care for and catalogue costume pieces, and how to supervise the application of makeup.	0.50	Y	VOC	
QTB	Stage Management	Students learn about the role, responsibilities and characteristics of a stage manager as the central figure in theatre production. Specific knowledge and skills learned in this course include: filling out required paperwork for a production; working effectively with the actors, directors, designers and technicians; preparing a prompt book for a production, and how to call the cues for a production.	1.00	Y	VOC	
QTC	Theater Production	Using research and planning, students will develop a senior project related to a theatre production role. Where applicable, the student will perform that role in a school production (eg. as stage manager, production manager, house manager, or publicity/promotions manager). Students will also complete a professional type portfolio that includes a resume and an application to postsecondary training or the workforce. With instructor approval, eligible students may participate in an internship or other work-based learning experience that connects, reinforces and expands upon training and skills learned in theatre production.	1.00	Y	VOC	
QTD	Audio Visual Technology	In this course students are introduced to the vernacular and equipment of sound and video engineering. Students explore tasks and operational procedures in numerous aspects leading to production. Students learn to make mic selections and set-up options, set up and run a multi input and output soundboard and outboard gear, and run a video shoot and slide presentation.	0.50	Y	VOC	

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QTE	Audio Visual Design	In this course students learn how to apply design to audiovisual elements. Specific knowledge and skills learned include: designing sound system setups and effects tracks; designing a computer generated video slide show; and producing sound plots, visual imagery, and musical selections that complement the environment and mood of a production. Students practice proficiently selecting and operating a variety of audio and video equipment in a fast paced and highly stressful environment.	1.00	Y	VOC	
QTF	Theater Operations	Using research and planning, students will develop a senior project related to lighting in theatre operations. Where applicable, the student will perform that role in a school production (e.g. scenic design, lighting, av design). Students will also complete a professional type portfolio that includes a resume and an application to postsecondary training or the workforce. With instructor approval, eligible students may participate in an internship or other work-based learning experience that connects, reinforces and expands upon training and skills learned in theatre operations.	1.00	Y	VOC	
QTG	Senior Project Technical Theater 1		0.50	Y	VOC	
QTH	Senior Project Technical Theater 2		0.50	Y	VOC	
QU9	Senior Project- Vocal Music 1		0.50	Y	VOC	
QUA	Senior Project-Vocal Music 2		0.50	Y	VOC	
QV0	WORK BASED LEARNING-TV/VIDEO PRODUCTION	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
QV1	Television and Video Production I	This introductory course gives students an overview of industry fundamentals in both the communication and technical aspects of television and video production (TVP). A brief review of TVP history provides an awareness of the visual media's influence in our lives. Through classroom instruction and hands-on experiences students become familiar with TVP terminology and are introduced to basic studio and field camera equipment and operations. Students work individually and in teams to enhance their communication skills in voice, diction and scriptwriting. The variety of roles for pre-production planning, scriptwriting, filming, editing and other post-production work are introduced.	0.50	Y	VOC	
QV2	Television and Video Production II	Building on students' learning in TVP I, the purpose of this course is to enable students to develop basic skills in television production. Through classroom and field instruction that include applied experiences, students gain a broader understanding of the communication skills and the technology and equipment aspects of the industry. Students are introduced to storyboarding and further develop their script writing, voice and diction skills. Working individually and in teams, students gain considerable experiences in videotaping, editing, and broadcasting. Students learn and use criteria for judging the merits of a viewed program.	1.00	Y	VOC	
QV3	Television and Video Production III	This course expands on TVP II. Students learn how to operate all the video and audio hardware in the studio and how to work effectively as a team. Students experiment in different production positions so as to learn the expectations of each job for the video and television production team. The roles include script writing and storyboarding, operation of studio and field sound/video equipment, graphics and editing techniques, and direction and production of video projects. Students will explore business aspects and opportunities within the industry and have the opportunity to observe and job shadow professionals in related fields.	1.00	Y	VOC	

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QV4	Television and Video Production IV	Students develop advanced skills in video and television production and synthesize the skills of writing, planning, editing, directing, and producing television programs. Students gain experience in studio production regarding the selection and quality of production topics, use of appropriate equipment, and adherence to deadlines as well as finding solutions to unexpected challenges that arise in a production situation. Critical analysis of video and television productions is emphasized. Additionally, students identify and begin working on their Senior Project. Individual responsibility and commitment are very strongly emphasized.	1.00	Y	VOC	
QV5	Television and Video Production V	Students gain independence in planning, writing, producing and performing in television productions. Students complete a Senior Project and prepare their Portfolio for formal presentation. Eligible students will have an opportunity to intern with industry professionals or participate in other work-based learning experiences.	0.50	Y	VOC	
QV9	SENIOR PROJECT-TV/VIDEO PRODUCTION	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
R01	Army Junior ROTC I	Introduces leadership education training by defining positive self concepts. Develops basic managerial skills. Introduces leadership theory by providing practical demonstrations and applications of leadership. Introduces the students to first aid and other lifesaving measures. The principles of oral communication, basic marksmanship, maps and map-reading techniques, wearing of the uniform, and ceremonies are taught. Students participate in leadership training by observing and following others in the military setting.	1.00	Y	VOC	
R02	Army Junior ROTC II	Provides for practical exercise in leadership. Studies injuries requiring special first-aid measures. Reviews and practices map-reading techniques, principles of instruction, marksmanship, and safety. Studies significant characteristics of civilian and military leaders and analyzes the qualities responsible for their success. Student gets practical experience in leadership by directing others in the military setting.	1.00	Y	VOC	
R03	Army Junior ROTC III	Enables students to apply leadership techniques involving such areas as: team building, teamwork, team spirit, the flow of communications, and the problem-solving process. Students conduct ceremonies and coach marksmanship training. The students make a comprehensive review of and apply the principles and techniques of map reading, methods of instruction, and small unit management. Student apply leadership training by directing other students in the military setting.	1.00	Y	VOC	
R04	Army Junior ROTC IV	Allows students the opportunity to demonstrate their abilities to present and critique classroom material, prepare lesson plans as an assistant instructor, and to prepare, conduct and evaluate drill training as a cadet leader or staff officer. Additionally, students may be used to coordinate, plan and supervise service learning requirements for their respective cadet units.	1.00	Y	VOC	
R05	Naval Science I	Introduces naval science training which enables the student to become a better informed citizen on matters of national security and challenges of today's modern Navy. This course introduces the student to such topics as: Navy, Naval history, seamanship, navigation, leadership, and the leading laboratory.	1.00	Y	VOC	
R06	Naval Science II	Provides for practical application of leadership while studying such topics as oceanography, meteorology, navigation, piloting, and rules of the nautical road. Student's leadership training is reinforced by participating in the leadership laboratory.	1.00	Y	VOC	
R07	Naval Science III	Enables students to apply leadership training while participating in advanced study in topics such as astronomy, relative motion, celestial navigation, electronics in the modern Navy, communications, and the principles of radar and sonar. Students' leadership training is reinforced by participating as leaders in the leadership laboratory.	1.00	Y	VOC	
R08	Naval Science IV	Allows students the opportunity to demonstrate their abilities to present and critique classroom material, prepare lesson plans as an assistant instructor, and to prepare, conduct, and evaluate drill training as a cadet leader or staff officer. Additionally, students may be used to coordinate, plan and supervise services learning requirements for their respective cadet units.	1.00	Y	VOC	

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R09	Aerospace Education I	Introduces Aerospace Education which will enable students to integrate history, social studies, and physical science in considering the heritage of flight, the development of air power, and the military aerospace age. Leadership laboaratory includes topics such as Air Forces traditions, customs, and courtesies. Students will be taught how to wear the Air Forces Uniform.	1.00	Y	VOC	
R10	Aerospace Education II	Exposes the student to Physical Science topics such as the aerospace environment, human requirements of flight, and principles of flight navigation. The student will reinforce previous leadership laboratory instruction by leading the first-year cadets in the laboratory.	1.00	Y	VOC	
R11	Aerospace Education III	Examines aerospace propulsion systems, rocketry and spacecraft, space travel, civil aviation, aerospace vehicles, and careers in aerospace. The student applies the principles of leadership and the fundamentals of working with people by leading the first and second-year cadets in the leadership laboratory.	1.00	Y	VOC	
R12	Aerospace Education IV	Allows students the opportunity to demonstrate their abilities to present and critique classroom material, prepare lesson plans as an assistant instructor, and to prepare, conduct, and evaluate drill training as a cadet leader or staff officer. Additionally, students may be used to coordinate, plan and supervise service learning requirements for their respective cadet units.	1.00	Y	VOC	
RA1	Army Junior ROTC I Part A	Introduces leadership education training by defining positive self concepts. Develops basic managerial skills. Introduces leadership theory by providing practical demonstrations and applications of leadership. Introduces the students to first aid and other lifesaving measures. The principles of oral communication, basic marksmanship, maps and map-reading techniques, wearing of the uniform, and ceremonies are taught. Students participate in leadership training by observing and following others in the military setting. This is 0.5 credit and should be partnered with RA2.	0.50	Y	VOC	
RA2	Army Junior ROTC I Part B	Introduces leadership education training by defining positive self concepts. Develops basic managerial skills. Introduces leadership theory by providing practical demonstrations and applications of leadership. Introduces the students to first aid and other lifesaving measures. The principles of oral communication, basic marksmanship, maps and map-reading techniques, wearing of the uniform, and ceremonies are taught. Students participate in leadership training by observing and following others in the military setting. This is 0.5 credit course and should be partnered with RA1.	0.50	Y	VOC	
RA3	Army Junior ROTC II Part A	Provides for practical exercise in leadership. Studies injuries requiring special first-aid measures. Reviews and practices map-reading techniques, principles of instruction, marksmanship, and safety. Studies significant characteristics of civilian and military leaders and analyzes the qualities responsible for their success. Student gets practical experience in leadership by directing others in the military setting. This is a 0.5 credit course and is partnered with RA4	0.50	Y	VOC	
RA4	Army Junior ROCT II Part B		0.50	Y	VOC	
S43	Aerospace Science I	Offers a one-year laboratory science course which provides a survey of aerospace related careers, the fundamentals of flight, basic air navigation, aircraft systems, air traffic control and communications, aviation weather, and aircraft performance. In addition, students are provided opportunities to discover the interdisciplinary relationships of mathematics, science, social studies, and language arts - as each of these subject areas is integrated in the study of aerospace science. Orientation flights may be included (when funded) to provide students with an opportunity to apply the skills in computation and communication in the planning and execution of an actual flight.	0.50	Y	VOC	
T43	Fund Electricity/Electronics I	This is an introductory course into the field of electronics. This course helps students develop the manipulative skills and knowledge necessary for employment in the electronics field. Safety and tool use will be emphasized.	0.50	Y	VOC	
T61	Graphic Arts I	Graphic Art I	1.00	Y	VOC	
T62	Graphic Arts II	Graphic Art II	1.00	Y	VOC	

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TE0	WORK BASED LEARNING-ENGINEERING	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
TE1	Principles of Engineering	This course will help students understand the field of engineering & engineering technology. By exploring various technology systems and manufacturing processes, students will learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people.	1.00	Y	VOC	
TE2	Introduction to Engineering Design	Students will learn problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.	1.00	Y	VOC	
TE3	Digital Electronics	This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in calculators, video games and computers. Students use industry standard computer software in testing and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto routing program that generates printed circuit boards, and use appropriate components to build their designs. This course covers several topics including: analog and digital fundamentals, binary numbers, logic gates and functions, and Boolean algebra and circuit design.	1.00	Y	VOC	
TE4	Computer Integrated Manufacturing	In this course students will learn to apply the principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design (TE2). Fundamental concepts of robotics used in automated manufacturing and design analysis are included.	1.00	Y	VOC	
TE5	Engineering Design & Development	This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers.	1.00	Y	VOC	
TE6	Civil Engineering and Architecture	This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. The course covers topics such as: the roles of Civil Engineering and Architects, project planning, site planning, building design, and project documentation and presentation.	1.00	Y	VOC	
TE9	SENIOR PROJECT-ENGINEERING	The Senior Project course is a challenging, student-driven, teacher-guided, culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
TM0	WORK BASED LEARNING-MANUFACTURING	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
TM1	Building Foundations Ford PAS	Building Foundations introduces students to the worlds of business, product development, and manufacturing while building a foundation of skills important for academic and workplace success, skills that are used throughout the Ford PAS curriculum. Students learn to work in teams to solve problems related to planning, developing, and producing products. Students develop communication skills through reading, writing, and role-play activities as they expand the product line of a fictional business. Students develop skills in research and analysis as they examine and compare the circumstances and lives of people working in different periods of United States history.	0.50	Y	VOC	

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TM2	Adapting to Change Ford PAS	Adapting to Change begins with an exploration of evolving career, job, and internship possibilities and then engages students in a study of two issues that are driving change in business and industry today: environmental concerns and efficiency. Module 4 gives students an opportunity to explore their own interests and values, as well as a chance to match these interests and values to changing employment opportunities in their communities. In Module 5, students explore how industry can respond to the challenge of becoming environmentally sustainable by changing products, processes, facilities, and supply chains. In Module 6, students respond to another current-day challenge: making the most efficient use of time, human, and material resources in a customer-driven market.	0.50	Y	VOC	
TM3	Managing & Marketing with Data Ford PAS	In Managing and Marketing with Data, students learn how businesses use data for a wide range of decision-making and strategic-planning activities. In Module 7, students use data to run a successful marketing campaign and make effective business decisions. In Module 8, they master statistical tools used in business to ensure high-quality services and products. In Module 9, students look at ways that information systems are used in business to manage and share the data needed to make informed decisions.	0.50	Y	VOC	
TM4	Design For Tomorrow Ford PAS	This course engages students in the process of product design and focuses on key design issues of the 21st century. Students begin in Module 10 with the challenge of reverse engineering, analyzing products from the perspectives of consumers and manufacturers. In Module 11, students experience the design process themselves, redesigning an existing product in order to meet specific needs or goals. Finally, in Module 12, students explore innovative technologies that may transform energy use in this century.	0.50	Y	VOC	
TM5	Understanding Global Economy Ford PAS	Students will learn basic economic principles while developing an understanding of the nature of our global economy. Students will become familiar with how economists measure the well-being of different countries. In Module 14, students focus on how both international trade itself and international business and environmental regulations affect businesses and individuals throughout the world. In Module 15, they learn how companies are responding to a globalized economy and the challenges it presents.	0.50	Y	VOC	
TM6	Computer Assisted Drafting I	Provides students with instruction in the basic CAD language used in industry and technology. Students examine computer-aided drafting, types of computer-aided drafting equipment, and ways computer-aided drafting is used. Class experiences include preparation of engineering drawing using varied methods, overview of all drafting functions, and using different types of drafting equipment. Students explore graphical representations of major CAD tasks in engineering, architecture, and other technologies related to drafting.	0.50	Y	VOC	
TM7	Computer Assisted Drafting II	This course is a continuation of Computer Assisted Drafting I. In this CAD course students will revisit topics covered in CAD I in more depth.	0.50	Y	VOC	
TM9	SENIOR PROJECT- MANUFACTURING	The Senior Project course is a challenging, student-driven, teacher-guided, culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio, and a presentation.	0.50	Y	VOC	
TR0	WORK BASED LEARNING- ROBOTICS	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
TR1	Electronics I	This is an introductory course into the field of electronics. This course helps students develop the manipulative skills and knowledge necessary for employment in the electronics field. Safety and tool use will be emphasized.	1.00	Y	VOC	

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TR2	Electronics II	Through demonstrations, and practical projects students will learn to operate and repair circuits, motors, transformers, and other electrical equipment. Students will also review basic theories of electronics and go into function of components, resistors, capacitors and transistors. Students will design and test digital circuitry prior to the actual construction of circuits and devices.	1.00	Y	VOC	
TR3	Robotics Technology I	This is an introductory course to the field of Robotics. Students will explore basic robotic theory and design. This course explores how robotics and automation are utilized in industry. Hardware component selection, assembly and software programming of various types of robotic assemblies are performed and analyzed. The principles of electronics, physics, and engineering as applied to robotic design are presented.	1.00	Y	VOC	
TR4	Robotics Technology II	Challenges students to construct a robot. Study includes identifying components; interpreting diagrammatic, mechanical and electrical systems, and programming a computer to simulate specific robot functions.	1.00	Y	VOC	
TR9	SENIOR PROJECT-ROBOTICS	The Senior Project course is a challenging student driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
UJ8A	Applied Vocal Technique III	review, correct instrument position, correct standing and/or sitting position, identified playing positions, tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used. A specific section must be specified: A--Vocal B--Piano C--Flute D--Oboe E--Clarinet F--Bassoon G--Saxophone H--Trumpet J--French Horn K--Trombone L--Tuba M--Euphonium N--Violin P--Viola Q--Cello R--String Bass S--Guitar T--Brass U--Woodwind V--Percussion X--String	1.00	Y	VOC	

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UJ8B	Applied Piano Technique III	review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used. A specific section must be specified: A--Vocal B--Piano C--Flute D--Oboe E--Clarinet F--Bassoon G--Saxophone H--Trumpet J--French Horn K--Trombone L--Tuba M--Euphonium N--Violin P--Viola Q--Cello R--String Bass S--Guitar T--Brass U--Woodwind V--Percussion X--String	1.00	Y	VOC	
UJ8C	Applied Flute Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8D	Applied Oboe Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8E	Applied Clarinet Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8F	Applied Bassoon Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8G	Applied Saxophone Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	

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UJ8H	Applied Trumpet Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8J	Applied French Horn Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8K	Applied Trombone Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8L	Applied Tuba Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8M	Applied Euphonium Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8N	Applied Violin Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8P	Applied Viola Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8R	Applied Cello Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8S	Applied String Bass Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8T	Applied Guitar Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8U	Applied Bass Guitar Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	
UJ8V	Applied Percussion Technique III	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Proficient level 3 and 4 method books are used.	1.00	Y	VOC	

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UJ9	Applied Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used. A specific section must be specified: A--Vocal B--Piano C--Flute D--Oboe E--Clarinet F--Bassoon G--Saxophone H--Trumpet J--French Horn K--Trombone L--Tuba M--Euphonium N--Violin P--Viola Q--Cello R--String Bass S--Guitar T--Brass U--Woodwind V--Percussion X--String	1.00	Y	VOC	
UJ9A	Applied Vocal Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9B	Applied Piano Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9C	Applied Flute Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9D	Applied Oboe Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9E	Applied Clarinet Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	

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UJ9F	Applied Bassoon Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9G	Applied Saxophone Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9H	Applied Trumpet Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9J	Applied French Horn Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9K	Applied Trombone Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9L	Applied Tuba Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9M	Applied Euphonium Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9N	Applied Violin Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9P	Applied Viola Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9R	Applied Cello Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9S	Applied String Bass Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	N	VOC	
UJ9T	Applied Guitar Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	

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UJ9U	Applied Bass Guitar Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
UJ9V	Applied Percussion Technique IV	Continues individual or very small group instruction on an identified instrument, including vocal. Students review: correct instrument position; correct standing and/or sitting position; identified playing positions; tuning, and identified major scales played one octave. Additional studies are included as identified by the instructor. Advanced level 4 and higher method books are used.	1.00	Y	VOC	
V02	Computer Applications I	Focuses on the study and use of computer software including word processing, database, spreadsheet, keyboarding, and graphics software packages. Students are expected to use the computer as a tool to complete other course work.	0.50	Y	VOC	
V03	Computer Applications II	Incorporates more sophisticated levels of options available in standard office packages. Among the topics covered will be integration between and among the package's word processor, spreadsheet, database, and "slide show." A segment will also be devoted to web page construction as well as other available options, e.g. HTML, Java, and others. Extensive retrieval and organization of Internet data will also be emphasized. The student must incorporate the use of these packages in at least three of his or her other classes. The work is highly individualized; students must be highly self-motivated.	0.50	Y	VOC	
V04	Computer Applications III	Incorporates more sophisticated levels of options available in standard office packages. Among the topics covered will be integration between and among the package's word processing, spreadsheet, database, and slide show. Extensive retrieval and organization of Internet data will be emphasized.	0.50	Y	VOC	
V05	Intro To Computer Programming I	Provides the student an opportunity to explore various problem-solving techniques while learning a computer language. In addition to providing the student with a structured approach to solving problems which arise in various fields, the course is designed to give the student experience in programming a computer and a broad introduction to the world of digital computers.	0.50	Y	VOC	
V31	Computer Science	Provides the student with an opportunity to learn basic concepts of structured programming and top-down design. The student will apply these concepts to solve appropriate problems. Topics will include control features (IF/THEN/ELSE, WHILE, and others), data structures (arrays, records, sets, files), subprograms (procedures, functions), and special applications (simple sorting and searching). Pascal language will be used to facilitate program solution.	1.00	Y	VOC	
V41	AP Computer Science	Serves as a continuation of V31 and is expected to prepare the student for the advanced placement test in computer science. The major thrust will be to extend the student's knowledge of data structures (stacks, queues, trees, pointers, linked lists) as well as develop the student's ability to analyze methods for solving problems (including sorting, searching, and recursion). Pascal language will be used to facilitate problem solution.	1.00	Y	VOC	
V90	Microsoft Word 2000	None given.	0.50	Y	VOC	
V91	Microsoft Excel 2000	None given.	0.50	Y	VOC	
V92	Microsoft Access 2000	None given.	0.50		VOC	
V93	Microsoft PowerPoint 2000	None given.	0.50	Y	VOC	
V94	Microsoft Outlook 2000	None given.	0.50	Y	VOC	
VA1	Internet & Core Computer Concepts	The Internet and Core Computer Concepts (IC3) course provides an in-depth and dynamic standards based program that develops broad-based Internet and computing skills. The purpose of the course is to provide students with the educational foundation to succeed not only in technical careers, but also in any filed or job position requiring the use of computers.	1.00	Y	VOC	

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VA2	Computing Fundamentals	Computing Fundamentals covers subjects needed for a foundational understanding of computing, including knowledge and use of computer hardware, software and operating systems.	0.50	Y	VOC	
VA3	Living Online	Living Online covers aspects of working in an internet or networked environment, including basic knowledge of networks and the Internet, skills in specific applications such as electronic mail software and Web browsers, skills required to find and evaluate information, and an understanding of issues related to computing and the Internet being used at work, home and school (ergonomics, security, ethics, Internet "rules of the road" or "netiquette," etc.)	0.50	Y	VOC	
VC1	NETWORKING FOR HOME AND SMALL BUSINESS	Students learn how to setup a personal computer system, to include the operating system, interface cards and peripheral devices. Students also learn to plan, install, and troubleshoot small networks and troubleshoot internet connectivity. The configuration of wireless access points and wireless clients, recognition and mitigation of security threats to a home network and the sharing of resources such as files and printers among computers is also covered.	1.00	Y	VOC	
VC2	Working at a Small-to-Medium Business or ISP	This course helps students to understand the structure of the internet and how communication occurs between hosts. Lessons require students to install, configure, and troubleshoot IOS devices and plan a basic wired infrastructure to support network traffic. They will also configure a server, implement basic WAN connectivity, demonstrate proper disaster-recovery procedures and perform server backups.	1.00	Y	VOC	
VC3	INTRODUCING ROUTING & SWITCHING IN THE ENTERPRISE	Students implement a LAN and configure a switch with VLANs and inter-switch communication. Students will also configure routing protocols and perform LAN, WAN, and VLAN troubleshooting using a structured methodology and OSI model.	1.00	Y	VOC	
VC4	Designing and Supporting Computer Networks	In this course students design a simple internetwork. Students will learn to design an IP addressing scheme to meet LAN requirements, create an equipment list to design an LAN, install and configure a prototype network and obtain and upgrade IOS software in network devices.	1.00	Y	VOC	
VD0	WORK BASED LEARNING-IT	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
VD1	Web Page Design	This course presents the foundation of effective web page design. Students will learn the language of the web, and how to design web pages. The accessibility and performance of web pages will be stressed so that the students gain an appreciation for the experience of the audience. The history and societal impact of the Internet will be studied. The students will also study the ethical implications of the Internet.	0.50	Y	VOC	
VD2	Logic for Programming	In this course the student will learn to design computer programs, and will learn to understand how they function through the study of programming logic. Students will learn that becoming and being a programmer is fun. Students will design their own programs as part of this project based course.	0.50	Y	VOC	
VD9	SENIOR PROJECT-IT	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	

High School Courses that Fullfill DCPS Graduation Requirements in Specific Categories 2009-2010

VE1	Network Fundamentals	This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. Labs use a "model Internet" to allow students to analyze real data without affecting production networks. Packet Tracer (PT) activities help students analyze protocol and network operation and build small networks in a simulated environment. At the end of the course, students build simple LAN topologies by applying basic principles of cabling, performing basic configurations of network devices such as routers and switches, and implementing IP addressing schemes.	1.00	Y	VOC	
VE2	LAN Switching and Wireless	This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network.	1.00	Y	VOC	
VE3	Routing Protocols and Concepts	This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems. Students complete a basic procedural lab, followed by basic configuration, implementation, and troubleshooting labs in each chapter. Packet Tracer activities reinforce new concepts, and allow students to model and analyze routing processes that may be difficult to visualize or understand.	1.00	Y	VOC	
VE4	Accessing the WAN	This course discusses the wide Area Network (WAN) technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues.	1.00	Y	VOC	
VI0	WORK BASED LEARNING- INTERACTIVE MEDIA	Students participate in a school approved work-based learning experience directly related to their career major. The student works directly with business and industry professionals in a work-world setting that connects, reinforces, and expands upon training and skills learned in the classroom. The experience assists students in developing or clarifying their postsecondary career and educational plans.	0.50	Y	VOC	
VI1	Intro to Digital Media	This course introduces students to the fundamentals of multimedia, multimedia tools and skills and productions. Students will gain an understanding of digital media to include audio, video, graphics, text, animation tools, and color and presentation concepts.	1.00	Y	VOC	
VI2	Programming for Multimedia	Students will be introduced to multimedia programming concepts such as graphical programming, internet programming, animation programming, multimedia data bases, and management of audio data.	1.00	Y	VOC	
VI3	Interactive Media I	Students will receive instruction and practice in advanced web site production using application software to construct web sites that contain interactive graphics, animation, and sound.	0.50	Y	VOC	
VI4	Interactive Media II	This course introduces students to game programming and game programming concepts. Students will learn advance skills in using graphics, animation, sound and music, and artificial intelligence to create a game. An introduction to programming languages and programming language fundamentals such as managing I/O, loops and arrays, object-oriented programming, templates, and creating applications will also be given.	0.50	Y	VOC	

High School Courses that Fullfill DCPS Graduation Requirements in Specific Categories 2009-2010

VI9	SENIOR PROJECT-INTERACTIVE MEDIA	The Senior Project is a challenging student driven and teacher guided capstone course. Student and teacher agree on a topic/project that incorporates a research paper, a product, a portfolio, and a presentation.	0.50	Y	VOC	
VN0	WORK BASED LEARNING-NETWORKING	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
VN5	Digital Networks	Basic concepts of functionally connecting multiple computing devices are addressed in this course. Physical connections as well as logical connections are presented. Concepts such as bandwidth, access time, data rate, error detection and correction, as well as other appropriate topics, are covered.	0.50	Y	VOC	
VN8	ENTREPRENEURSHIP-NETWORKING	The various aspects of business ownership are explored. This hands-on course facilitates students in developing business plans, marketing and selling a product and/or service, and conducting cost analysis.	0.50	Y	VOC	
VN9	SENIOR PROJECT-NETWORKING	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio, and a presentation.	0.50	Y	VOC	
VP0	WORK BASED LEARNING-PROGRAMING	Students participate in a school approved work-based learning experience directly related to their career major. The student works directly with business and industry professionals in a work-world setting that connects, reinforces and expands upon training and skills learned in the classroom. The experience assists students in developing or clarifying their postsecondary career and educational plans.	0.50	Y	VOC	
VP2	Introduction to JAVA	This one-semester course is designed to follow the Logic for Programming course. Intro to Java Programming builds on the problem-solving skills and introduction to data structures found in the Logic course, ushering students into the world of object-oriented programming and complex data structures. This very hands-on introduction to Java will lay a solid groundwork for more advanced study of the Java language. Topics covered include classes, objects, and methods in object-oriented programming languages, graphical and textual applets, conditional operations, looping constructs, object arrays, inheritance, interfaces, and graphical user interface issues.	0.50	Y	VOC	
VP3	Programming I	Students learn how to describe, analyze and solve programming problems, paying attention to details. These skills will be acquired while learning the syntax of the Scheme programming language. It is important to note here, however that learning programming skills, not this specific computer language, will be the main course objective.	1.00	Y	VOC	
VP4	Programming II	This course carries students into more advanced programming concepts such as object oriented programming and more complex data structures. The students will also work on the concept of code reuse by working on already created code that might not be correctly documented or documented or all.	1.00	Y	VOC	
VP9	SENIOR PROJECT-PROGRAMING	The Senior Project is a challenging, student-driven and teacher-guided capstone course. Student and teacher agree on a topic/project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
VS0	WORK BASED LEARNING-SYSTEM SUPPORT	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
VS1	Systems Support & Maintenance	This course introduces students to the computer's inner workings. Students learn how to troubleshoot and repair various hardware, software, and configuration problems. Students also learn how to install basic computer components as well as to install and configure software ranging from operating systems to applications.	0.50	Y	VOC	

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VS3	IT Essentials II Network Operating Systems	This course presents the student with an intensive introduction to multi-user, multi-tasking network operating systems. Characteristics of several different network operating systems will be discussed. Students will explore a variety of topics including installation procedures, security issues, backup procedures and remote access.	1.00	Y	VOC	
VS4	IT Essentials: PC Hardware and Software	Students will learn the fundamentals of computer hardware and software as well as advanced concepts. They will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Topics include laptops and portable devices, wireless connectivity, security, safety and environmental issues, and communication skills. Hands-on lab activities are an essential element of the course. Virtual learning tools are integrated into this course.	1.00	Y	VOC	
VS9	SENIOR PROJECT- SYSTEM SUPPORT	The Senior Project course is a challenging, student-driven, teacher-guided culminating, program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
VW0	WORK BASED LEARNING-WEB DEVELOPMENT	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary goals.	0.50	Y	VOC	
VW1	Database Fundamentals	In this course students are introduced to the basic concepts of relational database engines and the tools to use them. Database concepts of tables, rows, indexes, constraints, triggers, SQL syntax, and storage are among the concepts presented. The importance and interdependency of data relationships is also addressed.	0.50	Y	VOC	
VW2	HTML	This course covers all the essential features and capabilities of HTML. It includes background information on the Internet, Web, and HTML. Topics that will be covered include: working with tables, forms, and multi-page web sites.	0.50	Y	VOC	
VW3	JavaScript	This hands-on JavaScript training course provides the knowledge necessary to design and develop dynamic web pages. It introduces students to JavaScript and how the language can be used to turn static HTML pages into dynamic, interactive web pages. Students will learn the syntax of the JavaScript language and how client-side scripts interact with server-side programs.	0.50	Y	VOC	
VW5	Advanced Web Tools	In this course, students are introduced to more advanced web topics such as Java, webscripting, web server administration, and the various multimedia tools and concepts available. Tool sets and concepts such as plugins are covered.	0.50	Y	VOC	
VW6	Web Development	This is a hands-on course in which students will design and create web pages using good web design skills and principles with user-friendly web page software, using Adobe Dreamweaver, Flash, Fireworks, Illustrator, and other software. Class activities include reviewing the major design principles of Web site design, evaluating existing Web sites, and developing skills in Web-related software packages.	1.00	Y	VOC	
VW9	SENIOR PROJECT- WEB DEVELOPMENT	The Senior Project course is a challenging, student-driven, teacher-guided, culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
W14	On-the Job Training I	Provides career prepatation within specific occupational areas through seminars and supervised on-the-job training experiences in cooperation with area business, industry, and government/community agencies. Students attend scheduled seminars and experience on-the-job training under actual working conditions.	1.50	Y	VOC	
W15	On-the-Job Training II	Provides career preparation within specific occupational areas through seminars and supervised on-the-job training experiences in cooperation with area businesses, industry, and government/community agencies. Students attend scheduled seminars and experience on-the-job training under actual working conditions.	1.50	Y	VOC	

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W16	INTERNSHIP 1	Provides career prepatation within specific occupational areas through seminars and supervised on-the-job training experiences in cooperation with area business, industry, and government/community agencies. Students attend scheduled seminars and experience on-the-job training under actual working conditions. 0.5 CU is provided for a minimum of 60 hours of seminar and training time.	0.50	Y	VOC	
W17	INTERNSHIP 2	Provides career preparation within specific occupational areas through seminars and supervised on-the-job training experiences in cooperation with area business, industry, and government/community agencies. Students attend scheduled seminars and experience on-the-job training under actual working conditions. 1.0 CU is provided for a minimum of 120 hours of seminar and training time.	1.00	Y	VOC	
YP1	Public Service Issues	This interactive course introduces students to the excitement and importance of active citizenship that leads people to public service careers in government, nonprofit agencies, or the public sector. Students learn basic issues and features of American government and politics, why and how they evolved, and how they impact individuals and society. Students are introduced to career options in public service.	1.00	Y	VOC	
YP2	Introduction to Public Policy	This course explores the role of public policy: how laws, regulations, programs, and procedures affect the lives of individuals in society. Students examine American government and the political process, the need for public policy and how it is established to serve the public good. Students explore the careers of those who work to implement, influence, and improve public policy.	1.00	Y	VOC	
ZB0	WORK BASED LEARNING- BIOTECHNOLOGY	Work Based Learning comprises a range of activities and instructional strategies designed to assist students in developing or fulfilling their individual career and educational plans. Students work directly with business and industry professionals in a career of their choice while developing skills to successfully meet career and post secondary educational goals.	0.50	Y	VOC	
ZB2	Biotechnology II	Biotechnology II is an advanced course involving hands-on activities. Students are expected to demonstrate a basic knowledge of laboratory techniques and applied Biotechnology practices in the laboratory.	1.00	Y	VOC	
ZB3	Biotechnology III	This advanced course involves working with the molecules of biotechnology, nucleic acids and proteins as well as plant biotechnology, including tissue culture and other methods of vegetative propagation. Students will learn advanced techniques for gene expression, purifying, characterizing, testing and quantitating these important molecules. Tests performed include preparation of recombinant DNA, bacterial transformation and gene expression and protein assays. Students will perform forensic tests of DNA using polymerase chain reaction, applying the advanced techniques and concepts, and perform protein gel electrophoresis. Students will analyze compounds produced by plants, perform genetic crosses to select desired traits, examine the effect of hormones and other environmental factors on plant growth and maturation and conduct work with recombinant DNA systems for plant-based bio-manufacturing. Students will also become adept at following standard operating procedures of the workplace, including the rigorous documentation needed in forensics and manufacture of medicines.	1.00	Y	VOC	
ZB4	ISSUES IN BIOTECHNOLOGY	This advanced course is a seminar on the ethical, legal and societal impacts of biotechnology. Current topics will be addressed. Students will conduct literature searches and interview professionals, becoming knowledgeable/expert in their field of interest. Students will make presentations to their classmates and outside experts on policy and practices.	0.50	Y	VOC	
ZB9	SENIOR PROJECT- BIOTECHNOLOGY	The Senior Project course is a challenging, student-driven, teacher-guided culminating program. Senior Project requires seniors and their instructors to agree on a project that incorporates a research paper, a product, a portfolio and a presentation.	0.50	Y	VOC	
ZM3	Molecular Biotechnology	This advanced course will focus on working with the molecules of biotechnology, nucleic acids and proteins. Students will learn advanced techniques for gene expression, purifying, characterizing, testing and quantitating these important molecules. Tests performed include preparation of recombinant DNA, bacterial transformation and gene expression and protein assays. Students will perform forensic tests of DNA using polymerase chain reaction, applying the advanced techniques and concepts, and perform protein gel electrophoresis. Students will become adept at following standard operating procedures of the workplace, including the rigorous documentation needed in forensics and manufacture of medicines.	1.00	Y	VOC	

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ZP3	Plant Biotechnology	This advanced course will focus on plant biotechnology, including tissue culture and other methods of vegetative propagation. Students will analyze compounds produced by plants, perform genetic crosses to select desired traits, examine the effect of hormones and other environmental factors on plant growth and maturation and conduct work with recombinant DNA systems for plant-based bio-manufacturing.	1.00	Y	VOC	
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